

GOVERNMENT OF THE DISTRICT OF COLUMBIA  
Department of the Environment



February 13, 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

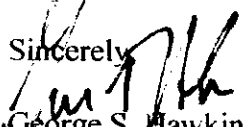
**RE: Clean and Affordable Energy Act of 2008, D.C. Law 17-250**

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) First Quarterly Report for October 2008 - December 2008. 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 December 31, 2008. 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 Jack Werner on 535-2615 or 673-6710 respectively.

Sincerely,

  
George S. Hawkins

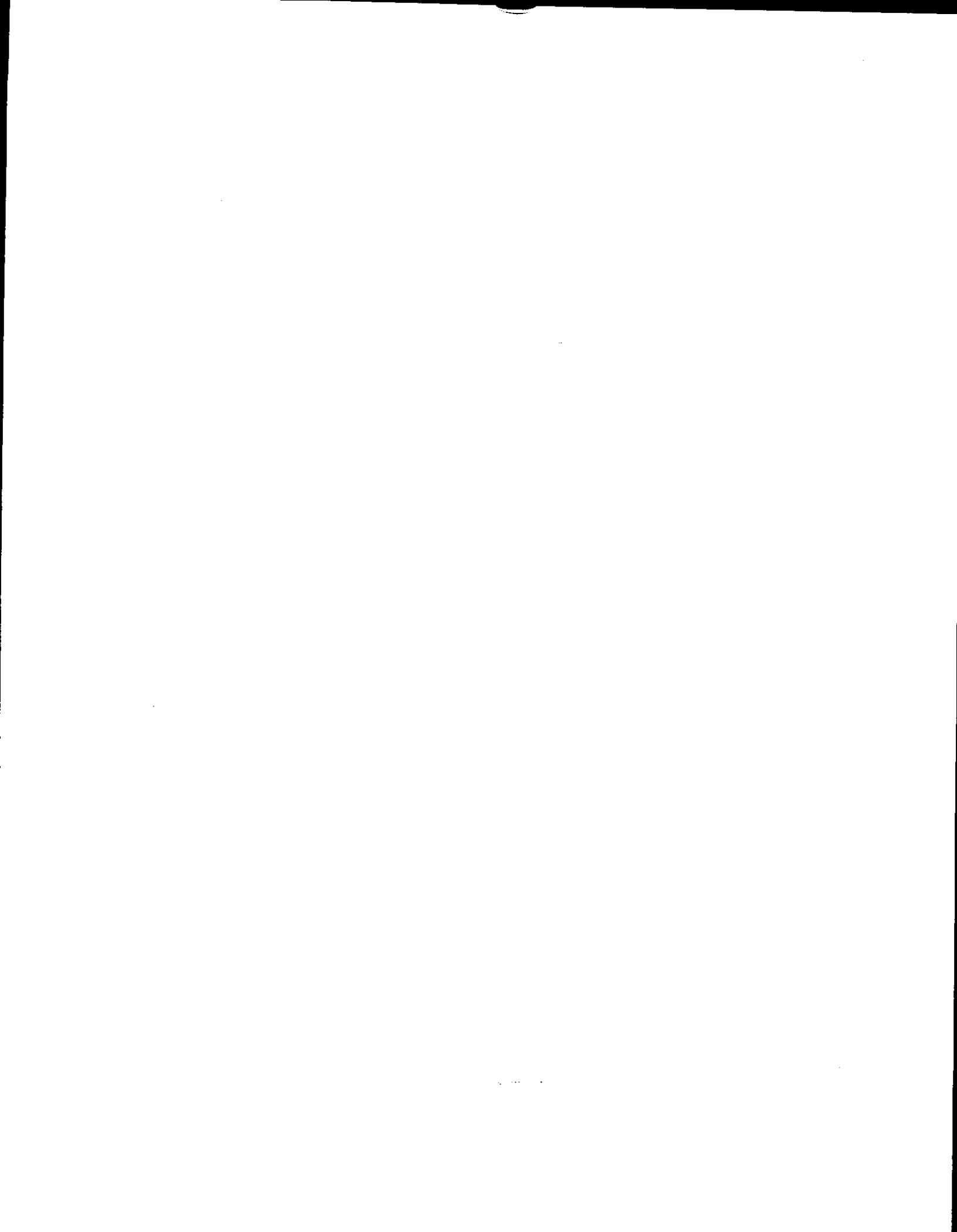
Director

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





**District Department of the Environment**  
**Clean and Affordable Energy Act**  
**Quarterly Report**  
*October 2008 – December 2008*



**District Department of the Environment  
Clean and Affordable Energy Act Quarterly Report  
For October 2008 – December 2008**

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***Attachments and Appendixes***

Attachment 1 - Revenue Collection

Attachment 2 - All Financial Activity

Attachment 3 - Administrative Budget and Expenditures

Attachment 4 - Monthly Actual Expenditures by Program

Attachment 5 - HERS News article

Appendix 1 - Saving Energy in D.C. School's Status

Appendix 2 - Renewables Energy Incentive Program Detailed Program Description



## **INTRODUCTION**

The District Department of the Environment's ("DDOE") Clean and Affordable Energy Act (CAEA) Quarterly Report to the Council covers the period from October 1, 2008, through December 31, 2008. 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, and 4) 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 (Commission) of the District of Columbia designated the DC Energy Office, later part of DDOE, as 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 first quarter report required by the 'Clean and Affordable Energy Act of 2008', D.C. Law 17-250, which became effective on October 1, 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 Act. 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%.*

In the Spring of FY08, DDOE sought assistance from Oak Ridge National Laboratory (ORNL) to help expand its data collection and record keeping and reporting system for DDOE's Energy Efficiency and Renewables Programs. The goal is to improve the way in which the progress of the programs are tracked, and to make process and impact evaluations more timely and effective. The resulting document, entitled "*Suggested Record-Keeping Procedures for DDOE Energy Programs*", was published in July 2008 and provides comprehensive findings, recommendations and analytical approaches for developing the database. DDOE has adopted the protocols for the key data to be collected and the frequency of data collection and is finalizing a database to be used by all the program managers to update the required fields periodically. DDOE intends to develop an Evaluation Measurement Verification (EMF) protocol for monitoring and

documenting program achievements, and measure how well the respective programs are achieving their goals and objectives.

### **CAEA BUDGET AND EXPENDITURES**

This report includes the following financial attachment:

- 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

<b>Program Name:</b>	Home Energy Rating System
<b>Program Number:</b>	C5
<b>Reporting Period:</b>	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.

## **Program Status**

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

## **Program Accomplishment**

The HERS program is fully operational. Elysian Energy and Patuxent Environmental Group (PEG) are currently contracted to provide audits. Elysian Energy completed 105 audits, and PEG completed 194 audits during this quarter for a total of 299. 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: Program Deliverables**

<b>Program Deliverables</b>	<b>Quarter Achievement</b>	<b>Cumulative Achievement</b>	<b>Program Goal</b>
# of Audits Completed	299	299	1,200

**Table 2: Estimated Audit Cost**

<b>WARD</b>	<b>Residents Served</b>	<b>Estimated Audit Cost</b>
1	42	\$14,460.00
2	21	\$6,770.00
3	55	\$18,640.00
4	58	\$19,525.00
5	49	\$16,410.00
6	33	\$16,035.00
7	29	\$9,590.00
8	12	\$3,770.00
Total	299	\$105,200.00

During this quarter DDOE has added an additional **632 names to the waiting list**. The HERS Program continues to receive a steady flow of requests for ratings from the many outreach efforts and promotional campaigns such as:

- Participated in the Health and Human Services' Energy Awareness Month Expo on October 28 and registered 10 residents for audits,
- Participated in the OPC's Energy Efficiency Expo on November 1, 2008 and registered 15 residents for HERS audits,
- Presented on the importance of Energy Efficiency and Energy Audits on November 5, 2008 at the Georgetown Senior Center,
- Participated in the 2<sup>nd</sup> Annual Anacostia Waterfront Community Information Fair on November 15, 2008 and registered 15 residents.

DDOE takes a holistic approach when completing Home Energy Ratings by distributing information on radon, lead-paint, tax-credit information and carbon monoxide detection and testing.

**Table 3: Timeline and Milestones**

<b>Milestone</b>	<b>Goal Date</b>	<b>Actual Date Accomplished</b>
<b>Quarter 1 Oct – Dec 2008</b>		
Conducting HERS audits	December 31, 2008	December 31, 2008

### **Acknowledgements**

In December 2008 an article was published in the Glover Park Gazette, written by Alex Levin, a district resident, about the HERS Program (see Attachment 5).

### **Next Quarter's Projected Goals**

During the second quarter DDOE will continue to perform HERS audits throughout all eight wards of the city as well as expand its waiting list. The Program will continue to take its holistic approach by distributing information on radon, lead-paint, tax-credit information and carbon monoxide detection and testing.

**Table 4: Quarter's 2 Timeline and Milestones**

<b>Milestone</b>	<b>Goal Date</b>	<b>Actual Date Accomplished</b>
<b>Quarter 2 Jan – Mar 2009</b>		
Continue conducting HERS audits	March 30, 2009	

### **Issues and Remedial Plan**

None

<b>Program Name:</b>	Weatherization Plus
<b>Program Number:</b>	D4
<b>Reporting Period:</b>	October 2008 - December 2008

### **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**

The Weatherization Plus Program received a total of 613 applications from both single and multi-family low-income homeowners. One third of the applications received were collected during the Joint Utility Discount Day (JUDD) event which was held on September 30, 2008. The program conducted energy audits in 371 multi-family dwelling units. Table 5 below provides a breakdown of the application, audit and completion status. The final audit reports have been completed and forwarded to the Community Based Organizations (CBO) for installations. Installation work is scheduled to begin January 2009.



**Table 5: Program Deliverables**

<b>Program Deliverables</b>	<b>Quarter Achievement</b>	<b>Cumulative Achievement</b>	<b>Program Goal</b>
Applications Received	613	613	329
Audits Completed	371	371	329
Installations Completed	0	0	329

*Explanation: This program has already audited more units than is needed to meet the goal for the program year. However, experience has shown that these units do not have enough electrical measures to exhaust the average per unit cost. As a result, the program will continue to audit additional units, mainly single-family homes, until program operation funds are exhausted.*

**Table 6: Summary of Projects**

<b>Projects</b>	<b>Ward</b>	<b>No. of Units</b>	<b>Project Status</b>
1007 Monroe St. NW	1	4	Bidding Process
5113 Fitch St. NE	7	281	Bidding Process
4125 Ames St. NE	7	53	Bidding Process
4242 6 <sup>th</sup> St SE	8	5	Bidding Process
2624 29 <sup>th</sup> St. SE	7	4	Bidding Process
2628 29 <sup>th</sup> St. SE	7	4	Bidding Process
5514 1st St NW	4	15	Bidding Process
1723 27 <sup>th</sup> St. SE	7	5	Bidding Process

Program management held several meetings with CBOs to discuss the out-sourcing of all single-family home energy audits. CBOs are required to select at least two professionally qualified auditing companies to perform audits. The projected start date for single family audits is January 15, 2009.

The annual Program Kick-Off Conference for the Weatherization Plus, Low Income Appliance Replacement Program, Weatherization and Rehabilitation and Heating System Repair, Replacement, and Tune-Up Program programs was held on November 21, 2008. The Kick-Off Conference is a round-table event that promotes information exchanges

surrounding program operation and implementation issues encountered and ways in which they can be improved upon. This meeting was mandatory for all CBOs and their staff, contractors, and representatives from major supply companies, such as Sears and Home Depot.

There were on-site visits to property owners and developers to fully explain the benefits of the program. The program benefits from a constant flow of referrals from satisfied building owners, residents, and developers that have received weatherization assistance. Also, the contracted CBOs helped to promote the program through their outreach efforts.

Based on the audits performed, the table below shows the recommended measures and their resulting estimated usage savings, on an annual basis and over the life of the installed measures. Should the recommended measures be installed, a total of 357,671 kWh or \$35,767 are expected to be saved annually, which equates to 5,276,876 kWh or \$527,687 over the life of the installed measures.

**Table 7 - Projected Annual Energy Savings**

<b>Recommended Measures / Appliances</b>	<b>Quantity</b>	<b>Saving Per Year Per Installed Quantity (kWh)</b>	<b>Life Time Saving (kWh)</b>	<b>Annual Saving (\$)</b>	<b>Life Time Saving (\$)</b>
Energy Star Fixture Replacement	1,342	314,028	4,710,420	31,403	471,042
Cooling Units	83	32,619	489,285	3,262	48,929
CFL Bulbs Replacement	212	11,024	77,168	1,102	7,717
<b>Total</b>	<b>1,637</b>	<b>357,671</b>	<b>5,276,873</b>	<b>35,767</b>	<b>527,688</b>

**Table 8: Timeline and Milestones**

<b>Milestone</b>	<b>Goal Date</b>	<b>Actual Date Accomplished</b>
<b>Quarter 1 Oct – Dec 2008</b>		
Sign Sub-Grantee Agreements with CBOs and	October 20, 2008	December 1, 2008

Milestone	Goal Date	Actual Date Accomplished
issue Grant Award Letters.		
Identify and recruit homes for participation in tuning-up, repairing and replacement of heating systems.	January 14, 2009	November 23, 2008
Conduct energy audits/assessments and Red tag emergency intake	January 14, 2009	December 9, 2008
Install recommended energy efficient heating systems and /or repairs	January 14, 2009	In Progress
Review monthly reports submitted by CBOs.	January 14, 2009	December 15, 2008

### 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: Quarter's 2 Timeline and Milestone**

Milestone	Goal Date	Actual Date Accomplished
<b>Quarter 2 Jan – March 2009</b>		
Identify and recruit homes for participation in tuning-up, repairing and replacement of heating systems.	March 29, 2009	
Conduct energy audits/assessments and Red tag emergency intake	March 29, 2009	
Install recommended energy efficient heating systems and /or repairs	March 29, 2009	
Review monthly reports submitted by CBOs.	February 15, 2009	

### Issues and Remedial Plan

None

<b>Program Name:</b>	Low Income Appliance Replacement Program
<b>Program Number:</b>	D5
<b>Reporting Period:</b>	October 2008 - December 2008

### **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 or 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 a total of 863 applications for appliance replacement from both single and multi-family low-income homeowners. Approximately 250 of the applications received were collected during the Joint Utility Discount Day (JUDD) event which was held on September 30, 2008. This program conducted appliance audits in 749 multi-family dwelling units. Table 10 below provides a breakdown of the audit and replacement status. The final audit reports have been completed and forwarded to different Community Based Organizations (CBOs) for installation of recommended energy-saving measures. Installation work is scheduled to begin January 2009.

**Table 10: Program Deliverables**

<b>Progress Deliverables</b>	<b>Quarter Achievement</b>	<b>Cumulative Achievement</b>	<b>Program Goal</b>
# of Appliances Audited	749	749	1,958
# of Refrigerators Replaced	0	0	902
# of Room Air Conditioners Replaced	0	0	1,056
<b>Total Appliances Installed</b>	<b>0</b>	<b>0</b>	<b>1,958</b>

Program management held several meetings with CBOs to discuss the out-sourcing of all single-family appliance audits as part of the overall home energy audit. CBOs are required to select at least two professionally qualified auditing companies to perform audits. The projected start date for single family appliance audits is January 15, 2009.

There were on-site visits to property owners and developers to fully explain the benefits of the program. The program benefits from a constant flow of referrals from satisfied building owners, residents, and developers that have received weatherization assistance. Also, the contracted CBOs helped to promote the program through their outreach efforts.

Based on the audits performed, the table below shows the recommended measures and their resulting estimated usage savings, on an annual basis and over the life of the installed measures. Should the recommended measures be installed, a total of 36,002 kWh or \$3,600 are expected to be saved annually, which equates to 540,030 kWh or \$54,003 over the life of the installed measures.

**Table 11 - Projected Annual Energy Savings**

<b>Recommended Measures / Appliances</b>	<b>Quantity</b>	<b>Saving Per Year Per Installed Quantity (kWh)</b>	<b>Life Time Saving (kWh)</b>	<b>Annual Saving (\$)</b>	<b>Life Time Saving (\$)</b>
Refrigerators	61	30,500	457,500	3,050	45,750
Window AC	14	5,502	82,530	550	8,253
<b>Total</b>	<b>75</b>	<b>36,002</b>	<b>540,030</b>	<b>3,600</b>	<b>54,003</b>

**Table 12: Timeline and Milestones**

<b>Milestone</b>	<b>Goal Date</b>	<b>Actual Date Accomplished</b>
<b>Quarter 1 Oct – Dec 2008</b>		
Sign Sub-Grantee Agreements with CBOs and issue Grant Award Letters.	October 20, 2008	December 1, 2008
Identify and recruit homes for participation in tuning-up, repairing and replacement of heating systems.	January 14, 2009	November 23, 2008
Conduct energy audits/assessments and Red tag emergency intake	January 14, 2009	December 9, 2008
Install recommended energy efficient heating systems and /or repairs	January 14, 2009	December 9, 2008
Review monthly reports submitted by CBOs.	January 14, 2009	December 15, 2008

**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 13: Quarter's 2 Timeline and Milestone**

<b>Milestone</b>	<b>Goal Date</b>	<b>Actual Date Accomplished</b>
<b>Quarter 2 Jan – Mar 2009</b>		
Identify and recruit homes for participation in tuning-up, repairing and replacement of heating systems.	March 29, 2009	
Conduct energy audits/assessments and Red tag emergency intake	March 29, 2009	
Install recommended energy efficient heating systems and /or repairs	March 29, 2009	
Review monthly reports submitted by CBOs.	February 15, 2009	

**Issues and Remedial Plan**

None

<b>Program Name:</b>	Weatherization and Rehabilitation
<b>Program Number:</b>	D6
<b>Reporting Period:</b>	October 2008 - December 2008

### **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**

This program received applications from two multi-family low-income homeowners that are in the process of upgrading their rental properties. Together, the two projects, which are located in S.E. Washington DC (Ward 8), have a total of 112 units that are in need of energy improvements. Table 14 below provides a breakdown of the audit and installation status. This program has conducted energy audits for both projects, and the recommended energy-saving measures are scheduled to be installed in January 2009. This program has also identified a number of potential rehabilitation projects that could benefit from the

energy-saving retrofits offered under this program. The application and verification process for these projects is expected to be completed by February 2009.

**Table 14: Program Deliverables**

<b>Program Deliverables</b>	<b>Quarter Achievement</b>	<b>Cumulative Achievement</b>	<b>Program Goal</b>
Applications Received	112	112	305
Audits Completed	112	112	305
Installations Completed	0	0	305

There were on-site visits to property owners and developers 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. Also, the contracted CBOs helped to promote the program through their outreach efforts.

Based on the audits performed, the table below shows the recommended measures and their resulting estimated usage savings, on an annual basis and over the life of the installed measures. Should the recommended measures be installed, a total of 17,556 kWh or \$1,755 are expected to be saved annually, which equates to 263,340 kWh or \$26,334 over the life of the installed measures.

**Table 15 - Projected Annual Energy Savings**

<b>Recommended Measures / Appliances</b>	<b>Quantity</b>	<b>Saving Per Year Per Installed Quantity (kWh)</b>	<b>Life Time Saving (kWh)</b>	<b>Annual Saving (\$)</b>	<b>Life Time Saving (\$)</b>
Energy Star Fixture Replacement	28	6,552	98,280	655	9,828
Cooling Units	28	11,004	165,060	1,100	16,506
<b>Total</b>	<b>56</b>	<b>17,556</b>	<b>263,340</b>	<b>1,755</b>	<b>26,334</b>



**Table 16: Timeline and Milestones**

<b>Milestone</b>	<b>Goal Date</b>	<b>Actual Date Accomplished</b>
<b>Quarter 1 Oct – Dec 2008</b>		
Sign Sub-Grantee Agreements with CBOs and issue Grant Award Letters.	October 20, 2008	December 1, 2008
Identify and recruit homes for participation in tuning-up, repairing and replacement of heating systems.	January 14, 2009	November 23, 2008
Conduct energy audits/assessments and Red tag emergency intake	January 14, 2009	December 9, 2008
Install recommended energy efficient heating systems and /or repairs	January 14, 2009	In Progress
Review monthly reports submitted by CBOs.	January 14, 2009	December 15, 2008

**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 17: Quarter's 2 Timeline and Milestones**

<b>Milestone</b>	<b>Goal Date</b>	<b>Actual Date Accomplished</b>
<b>Quarter 2 Jan – Mar 2009</b>		
Identify and recruit homes for participation in tuning-up, repairing and replacement of heating systems.	March 29, 2009	
Conduct energy audits/assessments and Red tag emergency intake	March 29, 2009	
Install recommended energy efficient heating systems and /or repairs	March 29, 2009	
Review monthly reports submitted by CBOs.	February 15, 2009	

**Issues and Remedial Plan**

None

<b>Program Name:</b>	Affordable Housing Energy Efficient Rebate Program
<b>Program Number:</b>	EI
<b>Reporting Period:</b>	October 2008 - December 2008

**Program Description**

The Affordable Housing Energy Efficiency Rebate Program provides rebates for the installation of energy-efficiency measures in affordable housing projects 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 principal outcome for these efforts 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 is expected to exceed its stated deliverables goal for the current program year. To date the program has received applications from 6 multi-family rehab projects totaling 630 dwelling units. 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 when DDOE receives 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.	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.	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.	In progress
Marian Russell Corporative	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.	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).	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.	In progress
<b>Total</b>		<b>630</b>		

**Table 19: Program Deliverables Table**

<b>Program Deliverables</b>	<b>Quarter Achievement</b>	<b>Cumulative Achievement</b>	<b>Program Goal</b>
Applications Received	630	630	400
Audits Completed	318	318	400
Installations Completed	<b>316</b>	<b>316</b>	<b>400</b>

**Table 20: Timeline and Milestones**

<b>Milestone</b>	<b>Goal Date</b>	<b>Actual Date Accomplished</b>
<b>Quarter 1 Oct – Dec 2008</b>		
Award Period fiscal year 2009, application, and evaluation period	October 2008	November 13, 2008
Contact each Developer for completion assurance by September 30, 2009	October 2008	November 13, 2008
Monitor Rebate Awards	October 2008	November 13, 2008
Inspection of Completion	October 2008	October 27, 2008

**Next Quarter's Projected Goals**

**Table 21: Timeline and Milestones**

<b>Milestone</b>	<b>Goal Date</b>	<b>Actual Date Accomplished</b>
<b>Quarter 2 Jan – Mar 2009</b>		
Grant application pre-awarded letters for fiscal year 2009 second solicitation	January 2009	
Monitor Rebate Awards	January 2009	
Implementation: Prepare Notification letters to Nonprofit Developers of Award Amounts for fiscal year 2009	January 2009	
Inspection of Completion	February 2009	
Payment of completed awards	February 2009	

**Issues and Remedial Plan**

None

<b>Program Name:</b>	Weatherization Rehabilitation Asset Partnership
<b>Program Number:</b>	E2
<b>Reporting Period:</b>	October 2008 - December 2008

**Program Description**

The Weatherization Rehabilitation and Asset Preservation (WRAP) Program performs energy audits and installs energy-saving measures in the dwellings of low to moderate income families and also refers those households to other programs for which they might be eligible. The program which is administered in Partnership with the Energy Programs Consortium (EPC) integrates weatherization services with rehab and related programs to help sustain low to moderate income homeownership. Program participants receive weatherization assistance, along with a review of their mortgage and insurance costs. Only electricity-saving measures are paid for using WRAP funds.

**Program Status**

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

**Program Accomplishments**

The participation rate for WRAP has increased significantly within the past three months and the program is already placing applicants on a waiting list. Since this program began, WRAP has received more than 150 applications and completed 118 energy audits (36 single-family and 82 units in four multi-family buildings). Table 22 below provides a breakdown of the audits and number of completions. EPC selected House Warmers and Green Homes Blue Skies to perform the installation of audit recommended measures in 15 single-family homes. The installation of energy efficient measures in multi-family

buildings is scheduled to begin in January 2009. DDOE is confident that all the audit recommended measures for both single and multi-family projects will be completed by September 30, 2009.

**Table 22: Program Deliverables**

<b>Progress Deliverables</b>	<b>Quarter Achievement</b>	<b>Cumulative Achievement</b>	<b>Program Goal</b>
# of Homes Audited	118	118	118
# of Single-Family Homes Completed	0	0	N/A
# of Multi-Family units Completed	15	15	N/A
<b>Total Completions Installed</b>	15	15	118

In addition, EPC in conjunction with MANNA and the National Fair Housing Alliance sponsored three outreach events to promote WRAP to the entire DC population. These events were well attended and the program was able to take applications on the spot. The program also sent out email blasts via churches, ANC's and DC Council websites. It is anticipated that a significant waiting list of clients to participate in this program will develop. Almost eighty-five percent of the families who receive approval letters follow through and schedule an audit.

**Table 23: Timeline and Milestones**

<b>Milestone</b>	<b>Goal Date</b>	<b>Actual Date Accomplished</b>
Sign FY 09 Sub-Grantee Agreement	October 2008	October 7, 2008
Identify and Recruit Clients for participation	December 2008	November 15, 2008
Conduct Energy Audits	December 2008	November 30, 2008
Install recommended energy-saving measures in single and multi-family homes	December 2008	In progress
Review monthly reports submitted by EPC	November 2008	November 11, 2008

### Next Quarter's Projected Goals

**Table 24: Quarter 2's Timeline and Milestone**

<b>Milestone</b>	<b>Goal Date</b>	<b>Actual Date Accomplished</b>
Identify and Recruit Clients for participation	March 31, 2009	
Conduct Energy Audits	March 31, 2009	
Install recommended energy-saving measures in single and multi-family homes	March 31, 2009	
Review monthly reports submitted by EPC	March 31, 2009	

### Issues and Remedial Plan:

None



<b>Program Name:</b>	Heating System Repair, Replacement, and Tune-Up Program
<b>Program Number:</b>	G2
<b>Reporting Period:</b>	October 2008 - December 2008

**Program Description**

The 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. The program also replaces inefficient gas hot water heaters and programmable thermostats. Participants in this program receive an assessment of their heating system as part of the general weatherization audit, except when heating systems are replaced or repaired on an emergency basis because there is no heat in the home or as a health and safety measure. 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**

The program received a total of 104 applications for heating system service from single-family low-income homeowners. Requests received because there was no heat in the home were deemed emergencies. All emergency requests received service within 48 hours from the date of application. Table 25 below provides a breakdown of the number and type of work completed, and Table 26 provides a breakdown of clients served through out the Wards.

**Table 25: Program Deliverables**

<b>Program Deliverables</b>	<b>Quarter Achievement</b>	<b>Cumulative Achievement</b>	<b>Program Goal</b>
# of Repairs Completed	19	19	50
# of Replacements Completed	56	56	153
# of Tune-Ups Completed	4	4	55
# of Hot Water Heaters Completed	25	25	50

*The number of completions for each measure is subject to change because the program operates on a first come, first serve basis. Therefore, the program goal for each measure is an estimated figure and is subject to change as the program progresses.*

**Table 26: Number of Clients Served Throughout the Wards**

<b>Ward 1</b>	<b>Ward 2</b>	<b>Ward 3</b>	<b>Ward 4</b>	<b>Ward 5</b>	<b>Ward 6</b>	<b>Ward 7</b>	<b>Ward 8</b>	<b>Total</b>
6	3	0	22	30	10	16	17	104

Program management held several meetings with CBOs to discuss the out-sourcing of all (non-emergency) single-family heating system audits. Program applicants will receive an assessment of their heating system as part of the general weatherization energy audit. CBOs are required to select at least two professionally qualified auditing companies to perform audits. The projected start date for single-family energy audits is January 15, 2009.

There were on-site visits to property owners and developers to fully explain the benefits of the program. The program benefits from a constant flow of referrals from satisfied building owners, residents, and developers that have received weatherization assistance. Also, the contracted CBOs helped to promote the program through their outreach efforts.

**Table 27: Timeline and Milestones**

<b>Milestone</b>	<b>Goal Date</b>	<b>Actual Date Accomplished</b>
<b>Quarter 1 Oct – Dec 2008</b>		
Sign Sub-Grantee Agreements with CBOs and issue Grant Award Letters.	October 2008	December 1, 2008
Identify and recruit homes for participation in tuning-up, repairing and replacement of heating systems.	January 2009	November 23, 2008
Conduct energy audits/assessments and Red tag emergency intake	January 2009	December 9, 2008
Install recommended energy efficient heating systems and /or repairs	January 2009	December 9, 2008
Review monthly reports submitted by CBOs.	January 2009	December 15, 2008

**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 28: Quarter 2 Timeline and Milestones**

<b>Milestone</b>	<b>Goal Date</b>	<b>Actual Date Accomplished</b>
<b>Quarter 2 Jan – Mar 2009</b>		
Identify and recruit homes for participation in tuning-up, repairing and replacement of heating systems.	March 2009	
Conduct energy audits/assessments and Red tag emergency intake	March 2009	
Install recommended energy efficient heating systems and /or repairs	March 2009	
Review monthly reports submitted by CBOs.	February 2009	

**Issues and Remedial Plan**

None

<b>Program Name:</b>	Residential Weatherization and Efficiency Program
<b>Program Number:</b>	G3
<b>Reporting Period:</b>	October 2008 - December 2008

**Program Description**

The Residential Weatherization and Efficiency Program is designed to encourage and enable non-low-income residents of the District to use natural gas in a more efficient and cost effective manner by offering incentives for installing energy efficient gas measures. It is designed to capture natural gas savings at the time of purchase of new equipment or replacement of equipment.

**Program Status**

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

**Program Accomplishment**

During this quarter several meetings and discussions have taken place with key stakeholders including DDOE staff, the Boston Based Consultant Firm of Democracy and Regulation, Inc., and Berkshire Gas of Massachusetts. All have contributed to the review of the Natural Gas Incentive Program (NGIP) and have made a number of observations that have been incorporated in developing a strategy for implementing this important project.

DDOE also had a conversation with New York State Energy Research and Development Authority (NYSERDA), Home Performance with Energy Star program. NYSERDA forwarded program information as well as copies of the contracts that they have with their vendor and the Invitation for Bid (IFB) that went out for solicitation. It has been

determined that a public/private partnership would be the best approach for this Rebate program. The District Department of Environment should administer the program and the rebate payments should be contracted out to a Rebate Fulfillment Contractor (RFC). DDOE is developing a human resource plan for this project and recommends that a rebate coordinator hired and serve as a liaison with the Rebate Fulfillment Company (RFC). DDOE intends to leverage the program with the HERS program. DDOE is strongly recommending that the first year of the Natural Gas Incentive program be targeted to the 1,500 homes who have received audits through the HERS program, utilizing the RemRate reports as a guide for offering rebates to this target group, developing best practices and then expanding the program in the second year. Certified contractors, who can assist clients in making the needed retro fits, will be identified through existing trade associations and in collaboration with the Washington Gas company. By leveraging these resources it will enhance the program's efforts. The target startup date to establish G-3 is in April 2009. Working in concert with the Office of Contracting and Procurement (OCP), DDOE will determine which process is the most effective and beneficial to the implementation of the program, IFB or Sole Sourcing the contract.

#### **Next Quarter's Projected Goals**

DDOE will continue researching rebate programs in other jurisdictions and request information on those programs. A meeting is scheduled with Washington Gas to discuss a DDOE-Washington Gas partnership to implement this program. Based on this meeting DDOE will finalize the list of items that would qualify for a rebate/incentive payment. Also the development of the scope of work for the RFC will take place, and the IFB or

Sole Source contract will be in place for the program to begin issuing rebates/incentive by the third quarter.

**Table 29: Quarter 2's Timeline & Milestone**

<b>Milestone</b>	<b>Goal Date</b>	<b>Actual Date Accomplished</b>
<b>Quarter 2 Jan - March</b>		
Research rebates programs in other jurisdictions	January 2009	
Begin contacting researched jurisdictions to request program information	January 2009	
Meet with Washington Gas representatives to discuss partnership	January 2009	
Finalize rebate item list	January 2009	
Review information received from other jurisdictions to determine what will work best with the District and its residents.	February 2009	
Begin developing scope of work for incentive/rebate fulfillment company	February 2009	
Submit scope of work to OCP (Office of Contracting & Procurement) for development of the IFB (Invitation for Bid)	February 2009	
Reprogram the budget to fit the program needs	February 2009	
Develop and finalize promotion of program	March 2009	
Invitation for Bids due	March 2009	

*\*This work plan is subject to change based on the outcomes of meetings, research and Contracting & Procurement rules and regulations.*

**Issues and Remedial Plan**

None

<b>Program Name:</b>	Energy Awareness Program
<b>Program Number:</b>	G5
<b>Reporting Period:</b>	October 2008 - December 2008

**Program Description**

The Energy Awareness Campaign seeks to raise the energy efficiency awareness levels of District residents and encourage participation by low-income residents in the SETF and EATF programs offered.

**Program Status**

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

**Program Accomplishments**

DDOE is working with a consultant to develop the baseline evaluation. Because the baseline evaluation has not been completed, advertising will not begin until February 2009. Advertising proposals have been secured from the media outlets listed below. DDOE will work with DC Cable TV-13 to produce and air an energy efficiency video. In addition to paid advertising, DDOE will distribute materials at community outreach events, draft and distribute a press release and post energy efficiency messages on community listservs.

**Television**

- OCT TV-13 (DC Cable)

**Radio**

- WHUR 96.3FM
- WMMJ 102.3 FM
- WPGC 95.5 FM
- WTOP 103.5 FM
- WASH 97.1 FM
- Mix 107.3 FM
- El Zol 99.1 FM



**Newspaper**

- Washington Post Express
- Washington Hispanic
- Washington City Paper

**Table 30: Timeline and Milestones**

Milestone	Goal Date	Actual Date Accomplished
<b>Quarter 1 Oct – Dec 2008</b>		
Review advertising proposals	December 2008	December 2008

**Next Quarter's Projected Goal**

**Table 31: Quarter's 2 Timeline and Milestones**

Milestone	Goal Date	Actual Date Accomplished
<b>Quarter 2 Jan – Mar 2009</b>		
Complete baseline evaluation and work with the Office of Contracting and Procurement to secure purchase orders for all advertising vendors. Launch awareness campaign after all purchase orders are received.	March 2009	
Baseline Evaluation: Develop the baseline evaluation.	February 2009	
Procurement: Work with the Office of Contracting and Procurement to secure purchase orders for all advertising vendors.	February 2009	
Advertisement Development: Update the radio scripts and print advertisements.	February 2009	
Awareness Campaign: Launch the energy awareness campaign. The radio commercials will air monthly.	February 2009	
Terminate RES advertisements in March 2009: Because the heating season ends in March, the RES campaign will end.	March 2009	

### **Issues and Remedial Plan**

Due to the lack of baseline data, the energy awareness campaign has not yet been launched. However, DDOE is working with a consultant who will develop the baseline in January. DDOE will provide the consultant with as much information as possible to ensure that the baseline evaluation is completed.

<b>Program Name:</b>	Saving Energy in D.C. Schools
<b>Program Number:</b>	G6
<b>Reporting Period:</b>	October 2008 - December 2008

**Project Description**

A primary function of DDOE is to educate students about energy efficiency, the environment, and reducing energy consumption in participating schools and extending to the student's homes. The goals of the Saving Energy in DC Schools (SEDS) program are to (a) educate students in grades K-12 about energy, (b) illustrate the connection between energy efficiency and the environment and (c) save energy in participating schools and students' homes. DDOE has contracted with the Alliance to Save Energy (ASE) (as proposed and approved by Commission Order) to implement the program into selected schools.

**Program Status**

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

**Program Accomplishments**

Saving Energy in D.C. Schools (SEDS) activities included a Professional Development Workshop in October, which involved significant planning and organization, arranging nine Student Energy Audit Trainings (SEAT), and conducting follow-up meetings with each school. Table 32 provides the status of the program's deliverables.

**Table 32: Program Deliverables**

<b>Program Deliverables</b>	<b>Quarter Achievement</b>	<b>Cumulative Achievement</b>	<b>Program Goal</b>
Train students on SEAT	145	145	120
Train teachers	15	15	12
Students exposed to energy (total)	525	525	180

### *Fall Workshop*

Approximately 30 school representatives from a mix of fourteen public, charter, and private schools from around the District gathered for the inaugural Saving Energy in DC Schools Program fall workshop on October 23<sup>rd</sup>. The teams of representatives, which consisted of teachers, school support staff, facilities managers, maintenance staff, and/or administrators, engaged in a full day of learning about energy and planning SEDS activities for their schools and students.

At the workshop, teams received:

- Lesson plans to engage their students in learning about energy.
- Green Schools Tool Kits, containing professional-quality diagnostic tools such as light meters, watt meters, temperature sensors, and building stethoscopes to generate creative ideas about involving students in collecting, analyzing, and tracking energy data at their schools.
- Invitations to the SEDS Google Group (<http://groups.google.com/group/savingenergy>) enabling students to access important documents from the workshop, update individualized pages for their school, start discussions, and upload and share documents and resources that they develop with other schools.
- Energy tracking sheets used to track energy saving activities their teams carry out throughout the year. The sheets track measurable data such as lights turned off, computers turned off, appliances removed, phantom loads reduced, etc.
- Five-strand plans which were completed for the next few months with possible activities in the various SEDS target areas.

### *Student Energy Audit Training*

Alliance to Save Energy (ASE) trained nine groups of between 10 and 20 students to perform energy audits at eight participating SEDS schools throughout November and December, greatly exceeding the program goal of training 20 students throughout the year.

An especially exciting development that came from student audits at Alice Deal Middle School found that the classrooms in the recently renovated section of the school are highly over lit. In some areas light levels reached 180 foot candles where only 50 are required, leading to areas 3.5 times brighter than they need to be and wasting KWh per classroom.

DDOE and Alliance staff have been in contact with DCPS Office of the Chancellor (OOC) staff to inform them of the areas in which energy adjustments are required. There is a plan on have schools present their final audit findings in coordination with the OOC to appropriate officials in the coming months.

#### *Follow-up Meetings with Schools*

Besides the overall meeting and coordinating trainings, local project coordinators met with the following schools to go over the 5-strand plan with the school team, give the team additional energy-tracking tools, and help them get started with their plan (see Appendix 1 for detailed explanation of each schools status). Table 33 below provides a summary status of all participating schools.

**Aidan Montessori School (Ward 3):** Meeting on November 6 with Joanne Kendrick (4<sup>th</sup> grade teacher)

**Alice Deal Middle School (Ward 3):** Meeting on November 14 with Jesse Koplowitz (math teacher), Elise Lerum (science teacher), Mr. Greenhill (custodian); SEAT Training was held on December 1

**Capital City Public Charter (Ward 1):** Meeting on November 7 with Jeff Brechbuhl (business manager) and Melissa (science teacher); SEAT trainings on December 4<sup>th</sup> and 5<sup>th</sup>