

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

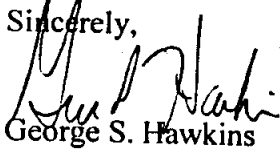
RE: Clean and Affordable Energy Act of 2008, D.C. Law 17-250

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



51 N Street, NE, 6th Fl., Washington, DC 20002

Phone: (202) 535-2600 Facsimile: (202) 535-2881

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 2 - All Financial Activity

Attachment 3 – Administrative Budget and Expenditures

Attachment 4 - Monthly Actual Expenditures by Program

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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		

Table 19: Affordable Housing Energy Efficiency Rebate Deliverables

Program Deliverables	Quarter Achievement	Cumulative Achievement	Program Goal
Applications Received	0	630	*316
Audits Completed	0	318	*316
Installations Completed	0	316	*316

**See issues and remedial plan for explanation of changes in the program goals*

Table 20: Affordable Housing Energy Efficiency Timeline and Milestones

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

Next Quarter's Projected Goals

Table 21: Affordable Housing Energy Efficiency Rebate Quarter 3 Timeline and Milestones

Milestone	Goal Date	Actual Date Accomplished
Quarter 3 April – June 2009		
Payment of completed awards	June 2009	

Issues and Remedial Plan

The Affordable Housing Energy Efficiency Rebate Program completed its total program goal in the first quarter and will be unable to provide any additional rebates without additional funding. With the enactment of the CAEA, the Reliable Energy Trust Fund was discontinued and a new budget limit was established on this program. Accordingly, the target goal for units weatherized has been reduced from 410 to 316 units. There are an

additional 314 applications on the waiting list that will not be able to receive the rebate due to the programs current budget.

Program Name:	Weatherization Rehabilitation Asset Partnership
Program Number:	E2
Reporting Period:	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 funded with WRAP funds.

Program Status

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

Program Accomplishments

Thirty-four installations of measures were completed during this quarter.

Table 22 below provides a breakdown of the applications received, audits completed and number of installations completions. The program has already audited more units than is needed to accomplish the targeted program goal.

Table 22: Weatherization Rehabilitation Asset Preservation Deliverables

Progress Deliverables	Quarter Achievement	Cumulative Achievement	Program Goal
# of Homes Audited	6	124	*93
# of Single-Family Homes Completed	4	4	N/A
# of Multi-Family units Completed	15	30	N/A
Total Completions Installed	19	34	*93

**See issues and remedial plan for explanation of changes in the program goals*

EPC selected House Warmers, and Green Homes Blue Skies to perform the installation of audit recommended energy-saving measures in both single and multi-family dwelling units. The measures installed included Energy Star rated refrigerators, heat pumps, and energy efficient lighting retrofits.

Outreach Activities

EPC and DDOE made a presentation to the Ward 8 Ministerial Council, and attended a Ward 4 ANC meeting. Both events were quite productive. Manna Mortgage has identified 16 families who are seeking to either purchase or refinance mortgages that fit within the WRAP guidelines. City First Foundation inquired about a possible collaboration with their DHCD funded project to renovate 25 vacant homes and make available to WRAP income-eligible families. Cornerstone, a non-profit that provides independent housing for disabled DC residents, has also expressed interest in the program. The program continues to work closely with UPO, ANC's, and Housing and Counseling Services, Harrison Institute for Public Law, and Manna Mortgage.

Table 23: Weatherization Rehabilitation Asset Preservation Timeline and Milestones

Milestone	Goal Date	Actual Date Accomplished
Quarter 2 Jan – March 2009		
Identify and Recruit Clients for participation	March 31, 2009	March 15, 2009
Conduct Energy Audits	March 31, 2009	March 15, 2009
Install recommended energy-saving measures in single and multi-family homes	March 31, 2009	On going
Review monthly reports submitted by EPC	March 31, 2009	March 15, 2009

Plans for a WRAP showcase launch are still being finalized and an actual date for the event has been tentatively set for May 28, 2009. Options for advertising in local newspapers and magazines are under consideration.

Next Quarter's Projected Goals

Table 24: Weatherization Rehabilitation Asset Preservation Quarter 3 Timeline and Milestones

Milestone	Goal Date	Actual Date Accomplished
Quarter 3 Apr – June 2009		
Solidify Funding for FY 09	June 30, 2009	
Identify Clients	June 30, 2009	
Conduct Audits	June 30, 2009	
Install Energy Measures in Single/Multi-Family Homes	June 30, 2009	
Review Monthly Reports	June 30, 2009	

Issues and Remedial Plan

With the enactment of the CAEA, the Reliable Energy Trust Fund was discontinued and a new budget limit was established on this program. Accordingly, the target goal for units weatherized has been reduced from 181 to 93 units. There are additional applications on the waiting list that will not be able to receive the rebate due to the programs current budget.

The overall installation/completion process has progressed slower than anticipated due to setbacks caused by the economic downturn. Some property owners of the multi-family projects have experienced a serious delay in anticipated funding from the Department of Housing and Community Development (DHCD). Because of the nature of the rehab project, the energy-saving measures identified by DDOE cannot be installed until certain aspects of the project are completed. However, EPC is confident that the property owners will be able to overcome these minor setbacks and all audited units will be completed before September 30, 2009.

Program Name:	Heating System Repair, Replacement, and Tune-Up Program
Program Number:	G2
Reporting Period:	January 2009 – March 2009

Program Description

The Heating System Repair, Replacement, and Tune-up Program provides 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 provides programmable thermostats. Participants 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 demand for services provided under this program continues to exceed expectations and customer satisfaction with the program remained high through the second quarter. This was evident by the Customer Satisfaction Survey completed by the CBOs. During the quarter a total of 118 single-family homes received a tune-up, repair or replacement of their heating system and/or gas hot-water heater. Table 25 below provides a breakdown of the number and type of work completed, and Table 26 provides a breakdown of clients served throughout the Wards.

Table 25: Heating System Repair, Replacement, and Tune-Up Program Deliverables

Program Deliverables	Quarter Achievement	Cumulative Achievement	Program Goal
# of Repairs Completed	24	43	50
# of Replacements Completed	51	107	153
# of Tune-Ups Completed	26	30	55
# of Hot Water Heaters Completed	17	42	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: Heating System Repair, Replacement, and Tune-Up Program Clients Served by Ward

Ward 1	Ward 2	Ward 3	Ward 4	Ward 5	Ward 6	Ward 7	Ward 8	Total
5	0	1	28	17	11	38	18	118

Going forward, DDOE will out-source all non-emergency single-family heating system audits to Patuxent Environmental Group (PEG) or Green Homes Blue Sky, LLC. Program applicants will receive an assessment of their heating system as part of the general weatherization energy audit.

Table 27: Heating System Repair, Replacement, and Tune-Up Program Timeline and Milestones

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

Next Quarter's Projected Goals

Program management will shift focus from exclusively single-family homes, and collaborate with the Weatherization Rehabilitation Program and the Weatherization Plus Program to provide for the replacement of gas-fired heating systems in multi-family

dwelling units. Program management has already identified three multi-family projects (36 units total) that will be able to benefit from the services offered under this program. The application and eligibility process has already been completed under the Weatherization Assistance Program (WAP), and it is anticipated that these units will be audited in early April, 2009.

Table 28: Heating System Repair, Replacement, and Tune-Up Program Quarter 3 Timeline and Milestones

Milestone	Goal Date	Actual Date Accomplished
Quarter 3 April – June 2009		
Identify and recruit homes for participation in tuning-up, repairing and replacement of heating systems.	June 2009	
Conduct energy audits/assessments and Red tag emergency intake	June 2009	
Install recommended energy efficient heating systems and /or repairs	June 2009	
Review monthly reports submitted by CBOs.	May 2009	

Issues and Remedial Plan

The third and fourth quarters for this program are generally slower than the first two quarters because as the season changes, it becomes more difficult to effectively assess a heating system. However, program management is extremely confident that the program will exceed its targeted goals because there are a number of projects that are in the pipeline and additional requests are being accepted daily.

Program Name:	Residential Weatherization and Efficiency Program
Program Number:	G3
Reporting Period:	January 2009 - March 2009

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:

Four regional programs serve as models for the District's program; Delaware's Green Energy Incentive program, Maryland's Smart Energy Savers Residential Rebate program, Virginia's Residential Energy Efficiency Program and Pennsylvania's Keystone HELP Energy Efficiency Loan and Rebate Program. In January, Washington Gas provided advice based on their expertise about the types of equipment for which rebates should be offered, and collaborated outreach efforts are in development. Implementation of this rebate program will be provided through a contracted rebate fulfillment company. Research has revealed at least six companies capable of meeting program needs.

Table 29: Residential Weatherization and Efficiency Timeline and Milestone

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

Next Quarter's Projected goals:

Program focus for the third quarter will be on procuring the services of a rebate fulfillment company, and development of rebate availability education materials and strategy.

Table 30: Residential Weatherization and Efficiency Quarter 3 Timeline and Milestones

Milestone	Goal Date	Actual Date Accomplished
Quarter 3 April – June 2009		
Finalize rebate item list	June 2009	
Begin developing scope of work for incentive/rebate fulfillment company	June 2009	
Submit scope of work to OCP (Office of Contracting & Procurement) for development of the IFB (Invitation for Bid)	June 2009	
Reprogram the budget to fit the program needs	June 2009	
Develop and finalize promotion of program	June 2009	
Invitation for Bids due	June 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:

Although the program is behind schedule, it's expected that the high participation in the HERS program and the 2,000 plus audits that have already been completed, DDOE will quickly achieve its goal.

Program Name:	Energy Awareness Program
Program Number:	G5
Reporting Period:	January 2009 – March 2009

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

The procurement process has begun for the selection of the baseline evaluator. Once the contract is awarded the awareness campaign outlined in the previous quarterly report will begin.

Table 31: Energy Awareness Program Timeline and Milestones

Milestone	Goal Date	Actual Date Accomplished
Quarter 2 Jan – March 2009		
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	March 2009
Baseline Evaluation: Develop the baseline evaluation.	February 2009	March 2009
Procurement: Work with the Office of Contracting and Procurement to secure purchase orders for all advertising vendors.	February 2009	Pending
Advertisement Development: Update the radio scripts and print advertisements.	February 2009	February 2009

Milestone	Goal Date	Actual Date Accomplished
Awareness Campaign: Launch the energy awareness campaign. The radio commercials will air monthly.	February 2009	Pending
Terminate RES advertisements in March 2009: Because the heating season ends in March, the RES campaign will end.	March 2009	Revised (See issues and remedial plan)

Next Quarter's Projected Goal

Table 32: Energy Awareness Program Quarter 3 Timeline and Milestones

Milestone	Goal Date	Actual Date Accomplished
Quarter 3 Apr – June 2009		
Procurement: Work with the Office of Contracting and Procurement to secure purchase orders for all advertising vendors.	February 2009	
Awareness Campaign: Launch the energy awareness campaign. The radio commercials will air monthly.	February 2009	

Issues and Remedial Plan

The heating season ended in March, however this will provide an opportunity to build awareness for the next heating season. In addition incentives intended for this fiscal year will remain available.

Program Name:	Saving Energy in D.C. Schools
Program Number:	G6
Reporting Period:	January 2009 – March 2009

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 during this quarter included a mid-year meeting in February, which involved significant planning and organization, ordering and distributing stipends to teachers, tracking down energy data for participating schools, recruiting one additional school to the program, conducting additional Student Energy Audit Trainings (SEAT), participating in Science Fair, beginning planning for the End of Year Celebration, and conducting follow-up meetings with each school. Table 33 provides the status of the program's deliverables.

Table 33: Saving Energy in D.C. Schools Deliverables

Program Deliverables	Quarter Achievement	Cumulative Achievement	Program Goal
Train students on SEAT	70	215	120
Train teachers	3	18	12
Students exposed to energy in class	20	545	180

Mid-Year Meeting

The Mid-Year Meeting, held on February 5th, brought together teachers, students and custodians from 14 of the 15 participating schools to share their successes and challenges from the first half of the school year, and to learn about project goals and activities for the remainder of the year. Another major task for the Mid-Year Meeting was highlighting various lessons that teachers have found helpful and that directly support DC Standards of Learning and was included in teacher folders at the workshop (See Attachment 5).

Finally, appropriate incentives were determined for schools that show exemplary project completion in both pulling together an audit report and sharing that information with others, as well as for any school that creates a website to share their SEDS activities (See Attachment 6). Team leaders were awarded \$200 and team members were awarded \$150 for their efforts in teaching about energy and saving energy in school for the first half of the school year.

Recruiting One Additional School to the Program

Following a preliminary meeting to explain program goals and resources, 2 teachers from Brookland Educational Campus as well as four students attended the Mid-Year Meeting. The after school program meets at Bunker Hill School, and we were able to get energy

data for their school prior to the Mid Year Meeting, which excited the whole team. They have also participated in SEAT.

Student Energy Audit Training

DDOE trained 4 additional groups totaling 70 students to perform energy audits at their schools, greatly adding to the exceeded program goal of training 20 students throughout the year: Key Elementary School (15 students); Brookland Education Campus (20 students); McKinley Technology High School (20 students); and E.L. Haynes Public Charter School (15 students).

Follow-up Meetings with Schools

Besides the overall meeting and coordinating trainings, local project coordinators met with the following schools to help organize the energy clubs at each school, provide tool kit training to students, help schools gather energy audit data, and prepare for the mid-year meeting (See Attachment 7).

Table 34: Saving Energy in D.C. Schools Participation

School	Ward	SEAT Participant	Students Directly involved in SEAT	Students Receiving Additional Energy Curriculum	Total Estimated Students Exposed to Energy Curriculum per School
Aiden Montessori School	3	No		30	30
Alice Deal Middle School	3	Yes	18		18
Brookland EC at Bunker Hill	5	Yes	20	20	40
Capital City PCS (both campuses)	1	Yes	36	25	61
Center City PCS	5	Yes	18	50	68
E.L. Haynes PCS	1	Yes	15		15
Gonzaga High School	6	Yes	15		15
Horace Mann Elementary	3	No		75	75
Key Elementary	3	Yes	15	25	40
Lafayette Elementary School	4	No			
McKinley Tech High School	5	Yes	20	20	40
Oyster Elementary	3	No		25	25
Adams Elementary	1	Yes	19	50	69
Prospect Learning Center	6	Yes	15		15
Stoddert Elementary	3	No		50	50
Washington International School	3	Yes	9		9
Wilson Senior High	3	Yes	15	50	65
TOTAL			215	420	635

Testimonials

DDOE subcontractor and service learning expert, John Sole, was on hand at the Mid Year Meeting to capture footage of the schools. A summary video is on YouTube:

<http://www.youtube.com/watch?v=J2zoPuGUqIL>.

Table 35: Saving Energy in D.C. Schools Timeline and Milestones

Milestone	Goal Date	Actual Date Accomplished
Quarter 2 Jan – Mar 2009		
Conduct mid-year meeting	February 2009	February 2009
Provide stipends	February 2009	February 2009
Implement a local recognition program for school achievement in energy efficiency activities involving students	February – June 2009	February 2009

Next Quarter's Projected Goals

Schools will convene at the End of Year Celebration, during which schools will be able to share project successes with other schools, parents, and stakeholders from across the city. Local project leaders will be working hard to help schools finalize their energy audit data and pull together final reports, recommendations, and presentation materials about their findings to showcase at the Celebration. All schools will receive a plaque of participation, but 4 schools will be specially recognized in categories of best website, best audit report, best outreach project, and best curriculum.

We will also look to engage students who have been trained through SEAT in summer projects or internships and recruit new schools to the program to reach our 18 school maximum, plus replace any schools that decide they do not wish to continue next year.

Table 36: Saving Energy in D.C. Schools Quarter 3 Timeline and Milestones

Milestone	Goal Date	Actual Date Accomplished
Quarter 3 Apr – June 2009		
Work with students who have completed the energy auditor training	May 2009	
Conduct end-of-year celebration	May 2009	
Implement a local recognition program for school achievement in energy efficiency activities involving students	June 2009	
Write a final report	July 2009	

Issues and Remedial Plan

Staying current with some school's successes is an issue because they don't always share their projects with us. In order to refocus schools and to learn more about their activities, the "first-semester documentation form" was sent out for all team leaders to be filled out

before the Mid-Year Meeting and returned in order for them and their team members to receive their first semester stipends. The form required the team lead to list activities in each of the 5 strands in order that we know what exactly they've accomplished, and they're able to see which areas they've neglected.

SEDS competes with other academic rigors in class and a variety of extracurricular activities after class. Currently working on demonstrating how SEDS can fulfill specific DCPS Standards of Learning in order to better fit into classroom learning and have found many concrete instances of specific lessons fulfilling specific standards. The findings were submitted to Dr. Kaspar along with a "Professional Development Activity Proposal" form that all providers must complete. Also, SEDS encourages schools to set up clubs which will be able to meet before, after, or during specially scheduled school time to carry out some of the requirements of the SEDS program. Clubs also provide a venue for the most interested students to get involved.

Program Name:	Renewable Energy Incentive Program
Program Number:	N/A
Reporting Period:	January 2009 – March 2009

Project Description

The District of Columbia Renewable Energy Incentive Program (REIP) has been developed to increase the use and awareness of renewable energy generation technologies by District of Columbia residents, businesses, and institutions.

Program Status

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

Program Accomplishments

The 2009 Renewable Energy Incentive Program opened to receive prequalification applications on February 23, 2009. While a number of technologies are eligible for a rebate, the program is currently only open for solar photovoltaic and small wind incentives at this time. Rebates for geothermal, solar hot water and air heating, biomass and waste gas capture are expected to be launched in the 3rd Quarter of FY 2009 as formal rules are promulgated and additional funds become available. Funding is limited to these technologies in order to more quickly grow the Photovoltaic sector the sector with proven technologies that will showcase the District's firm commitment to a key technology in reducing fossil fuel consumption, empowering building owners to produce their own power, and assist the most mature small-scale renewable energy market in reducing prices to consumers.

Rebate Award Amounts and Reservations

A total of \$2 million in funding remains available for the program year, however a total of \$2,165,568 has been requested through online prequalification applications submitted from February 23 – March 31, 2009. Improving market dynamics for photovoltaic systems (e.g. price reductions based on growing equipment inventories coupled with sagging global demand, increased federal tax incentives and increased regional competition from new vendor/installers) are making photovoltaic generating systems an attractive option for onsite power generation in the District. In addition, there have been limited requests for rebates for the other allowable system types. Thus, incentive fund allocations have been adjusted to reflect this greater public interest in photovoltaic systems. The entirety of this year's \$2 million budget will go toward photovoltaics and associated monitoring systems.

Table 37 below provides the status of the program's deliverables. Additional funds derived from the Renewable Energy Development Fund noncompliance payments (for FY 2008) and possible funds available via the American Recovery and Reinvestment Act will be allocated using a similar formula to the allocation breakdown provided in the 1st Quarter FY 2009 report. That allocation is as follows:

- \$1 million – solar photovoltaic
- \$500,000 – solar thermal (\$50k each dedicated to Wards 7 & 8)
- \$250,000 – geothermal (\$25k each dedicated to Wards 7 & 8)
- \$100,000 – small wind (\$10k each dedicated to Wards 7 & 8)
- \$100,000 – biomass (\$10k each dedicated to Wards 7 & 8)
- \$30,000 – waste gas capture
- \$20,000 – monitoring (\$2k each dedicated to Wards 7 & 8)

Table 37: Renewable Energy Incentive Program Deliverables

Program Deliverables	Quarter Achievement	Cumulative Achievement	Program Goal
Capacity of Rebates	0	0	200,000 Watts/Watts equivalent
Capacity of Applications	774 kW	774 kW	n/a
Number of Awards	0	0	110
Number of Applications	193	193	n/a
Rebate Amounts Awarded	0	0	\$2 million
Rebates Requested	193	193	n/a
• Residential Installations	0	0	
• Non-profit, business and institutional Installations	0	0	
Rebate Amounts Requested	\$2,165,568	\$2,165,568	\$2 million
Capacity Installed & Interconnected (Watts)	0	0	
Kilowatt hours/year capacity	953,603 kWh	953,603 kWh	
Energy Value (\$/year)	\$104,896.33	\$104,896.33	
Emissions Offset (Avoided)			
• Carbon dioxide (pounds)	1,155,777	1,155,777	
• Nitrogen oxides (pounds)	1,654	1,654	
• Sulfur dioxide (pounds)	7,905	7,905	

**Avoided emissions data derived from the EPA Power Profiler (eGRID Subregion: RFC East, which includes the ZIP code: 20009) and the EPA Greenhouse Gas Equivalencies Calculator updated February 17, 2009. These calculators include the eGRID2007 Version 1.1 annual non-baseload CO₂ output emission rates (year 2005 data).*

Table 38: Renewable Energy Incentive Program Timeline and Milestones

Milestone	Goal Date	Actual Date Accomplished
Quarter 2 Jan – March 2009		
Program launch	March 31, 2009	February 23, 2009

Next Quarter's Projected Goals

Incentives for additional technologies not currently available but allowable under the CAEA will launch. Continued stakeholder collaboration allows the program to continually evolve, such as the potential for a regional solar thermal program being explored through the Federal Department of Energy. Such a model would leverage existing opportunities in neighboring states as well as create new opportunities in other

markets, increasing the scale of manufacturing and lowering per unit equipment costs helping to make them more affordable. Financing mechanisms are being explored to provide opportunities for those with limited financial resources to purchase renewable energy equipment.

Table 39: Renewable Energy Incentive Program Quarter 3 Timeline and Milestones

Milestone	Goal Date	Actual Date Accomplished
Quarter 3 Apr – June 2009		
Review Full Applications	June 2009	
Distribute Approved Rebates	June 2009	

Issues and Remedial Plan

As previously reported, the constrained global capital market and ongoing consumer economic hardship have somewhat limited rebate requests. However, demand is still strong for photovoltaic systems in the District. This may be due to pent up localized demand, a unique economic situation with comparably low impact from economic crises elsewhere, and a stabilizing housing market. The challenge is to help the market adjust as to not create a boom-and-bust cycle for the renewable energy industry that is in the midst of expanding and creating green collar jobs. The situation is expected to improve as markets continue to ease, and home equity and small business loans for equipment become available at pre-2007 levels. A burgeoning renewable energy credits market is growing, allowing for additional upfront capital to consumers. The overall forecast for this program is favorable.

Energy Assistance Trust Fund

Program Name:	LIHEAP Expansion and Energy Education
Program Number:	D1
Reporting Period:	January 2009 - March 2009

Program Description:

The Low-Income Home Energy Assistance Program (LIHEAP) Extension and Education Program provides additional funding for electric customers to be used in concert with Federal LIHEAP funding. Households that would otherwise not be served as a result of limited LIHEAP funding are granted benefits through this program.

Program Status:

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

Program Accomplishments

The LIHEAP Extension and Education Program is currently not disbursing money because the Federal LIHEAP grant has not been depleted. The program is expected to begin in the 3rd Quarter.

Table 40: LIHEAP Expansion Deliverables

Program Deliverable	Quarter Achievement	Cumulative Achievement	Program Goal
# of households enrolled	0	0	2077

Table 41: LIHEAP Expansion Timeline and Milestones

Milestone	Goal Date	Actual Date Accomplished
Quarter 2 Jan – March 2009		
Funds are not used for this program until LIHEAP funds have been exhausted. No milestones are established for this quarter. Funds will be used in quarters 2 and 3.	N/A	N/A

Next Quarter's Projected Goals:

The LIHEAP Expansion and Energy Education expects to enroll 2,077 customers.

Table 42: LIHEAP Expansion Quarter 3 Timeline and Milestones

Milestone	Goal Date	Actual Date Accomplished
Quarter 3 April – June 2009		
Serve additional eligible District households (electric) pursuant to LIHEAP regulations and DC Council order.	June 30, 2009	

Issues and Remedial Plan:

None

Program Name:	RAD Expansion
Program Number:	D2
Reporting Period:	January 2009 - March 2009

Project Description

The Residential Aid Discount (RAD) Expansion Program is designed for eligible RAD clients to receive the expanded discount rates.

Program Status:

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

Program Accomplishments

In the 2nd Quarter, 7,334 electric customers were added to the RAD Expansion program. Of these, 2,457 were all-electric and 4,877 were non all-electric. Of the total households enrolled, there were 2,552 new RAD participants. See Table 44 for the distribution of participants by Ward.

Table 43: RAD Expansion Deliverables

Program Deliverable	Quarter Achievement	Cumulative Achievement	Program Goal
# of households enrolled	7,334	18,155	21,000

Table 44: RAD Expansion Clients by Ward

Ward 1	Ward 2	Ward 3	Ward 4	Ward 5	Ward 6	Ward 7	Ward 8	Total
790	243	28	720	1,226	530	1,630	2,167	7,334

Table 45: RAD Expansion Timeline and Milestones

Milestone	Goal Date	Actual Date Accomplished
Quarter 2 Jan – March 2009		
Provide clients with expanded discount rates on their electric bills.	March 31, 2009	March 31, 2009

Next Quarter's Projected Goals:

Third Quarter projections estimate enrollment of 4,000 clients.

Table 46: RAD Expansion Quarter 3 Timeline and Milestones

Milestone	Goal Date	Actual Date Accomplished
Quarter 3 April - June 2009		
Provide clients with expanded discount rates on their electric bills.	June 30, 2009	
Quarter 4 July - Sept 2009		
Provide clients with expanded discount rates on their electric bills.	June 30, 2009	

Issues and Remedial Plan:

None

Program Name:	RAD Arrearages Retirement and Education Program
Program Number:	D3
Reporting Period:	January 2009 - March 2009

Project Description

The RAD Arrearages and Education program is designed to assist eligible RAD customers with their PEPCO arrearages. The program provides a total of \$250 per customer towards the arrearage and initiates a balance payment plan over 12 months.

Program Status:

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

Program Accomplishments

The RAD Arrearage Retirement and Education Program is challenged by eligible customers who are also eligible for the LIHEAP benefit. The LIHEAP benefit pays the customer's bill or reduces their arrears significantly, which negates the need for the arrearage program. Additionally, customers are reluctant to commit to twelve months of arrearage payments. Outreach to create program awareness has included direct mailings; however in FY 2008 only 5 clients participated. In light of this lack of success this program is recommended to cease activities and redirect the funds to other programs that have a proven track record of meeting programmatic goals and objectives (i.e. D1: LIHEAP Extension and Education program and D2: RAD Expansion).

Next Quarter's Projected Goals:

Due to the lack of customers that have enrolled in the program DDOE does not expect to continue with the program in the upcoming quarters.

Issues and Remedial Plan

DDOE recommends that the program cease activities and redirect the funds to other programs that have a proven track record of meeting programmatic goals and objectives (i.e. D1: LIHEAP Extension and Education program and D2: RAD Expansion).

Program Name:	Residential Essential Service Expansion and Awareness Program
Program Number:	G1
Reporting Period:	January 2009 - March 2009

Project Description

The RES Expansion and Awareness Program aims to provide eligible gas customers greater affordability toward their total gas bills and to increase the participation rate by at least 30 %. The RES Expansion program will follow the same enrollment schedule and the RES program which extends its services until April 30, 2009. All customers that enroll after that date will not receive an additional discount on their utility bill.

Program Status:

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

Program Accomplishments

During the 2nd Quarter, 1,621 new participants applied for the program and 164 new participants received discounts on their gas bills. See Table 47 for participation by ward.

Table 47: RES Expansion Deliverables

Program Deliverable	Quarter Achievement	Cumulative Achievement	Program Goal
Additional Participants	*1,621	3,657	2200

*Of the 1,621 new participants that applied for the program only 164 received the discount on their gas bill.

Table 48: RES Expansion Clients by Ward

Ward 1	Ward 2	Ward 3	Ward 4	Ward 5	Ward 6	Ward 7	Ward 8	Total
89	29	2	226	365	135	360	415	1,621

Table 49: RES Expansion Timeline and Milestones

Milestone	Goal Date	Actual Date Accomplished
Quarter 2 Jan – March 2009		
Increase program participation rate by 30 % among eligible customers	March 31, 2009	March 31, 2009

Next Quarter's Projected Goals:

In the 3rd and 4th Quarter the program will be closed due to the achievement of the program goal in Quarter 2.

Table 50: RES Expansion Quarter 3 Timeline and Milestones

Milestone	Goal Date	Actual Date Accomplished
Quarter 3 April – June 2009		
The RES program will end in Quarter 3.	June 30, 2009	

Issues and Remedial Plan

None

ATTACHMENT 1
REVENUES COLLECTED
October 1, 2008 - March 31, 2009

[illegible][illegible]

ATTACHEMENT 2
All Financial Activity
2nd Quarter - As of 3/31/09

Fund Detail	Project No	Project Title	Personnel Services/NonPersonnel Services	Actual			Purchase Order Balance		Requisition Balance Amt	Expenditures & Obligations		YTD Available Balance
				Budget	Expenditures		Amt			Amt		
6700	ABOARD	SETF & EATF ADVISORY BOARD	01 (PERSONNEL SERVICES)	229,824.88	54,028.14		0.00		0.00	53,978.14		175,796.74
			02 (NON-PERSONNEL SERVICES)	29,958.83	2,199.96		0.00		0.00	2,199.96		27,758.87
	ABOARD Total			259,783.71	56,228.10		0.00		0.00	56,178.10		203,555.61
	ADMSE9	SETF ADMINISTRATION	01 (PERSONNEL SERVICES)	221,278.97	112,381.48		0.00		0.00	112,375.23		108,897.49
			02 (NON-PERSONNEL SERVICES)	257,649.03	16,346.03		21,018.09		9,000.00	46,364.12		211,284.91
	ADMSE9 Total			478,928.00	128,727.51		21,018.09		9,000.00	158,739.35		320,182.40
	EPD409	WEATHERIZATION PLUS	01 (PERSONNEL SERVICES)	82,690.60	29,005.85		0.00		0.00	28,995.10		53,694.75
			02 (NON-PERSONNEL SERVICES)	991,245.65	125,539.36		391,245.00		0.00	516,784.36		474,461.29
	EPD409 Total			1,073,936.25	154,545.21		391,245.00		0.00	545,779.46		528,146.04
	EPD509	LOW INCOME APPLIANCE REPLACEMENT	01 (PERSONNEL SERVICES)	174,931.23	64,718.77		0.00		0.00	64,668.77		110,212.46
			02 (NON-PERSONNEL SERVICES)	1,180,614.97	200,000.00		430,614.00		0.00	630,614.00		550,000.97
	EPD509 Total			1,355,546.20	264,718.77		430,614.00		0.00	695,282.77		660,213.43
	EPD609	WEATHERIZATION REHAB	01 (PERSONNEL SERVICES)	35,732.26	16,641.76		0.00		0.00	16,628.51		19,090.50
			02 (NON-PERSONNEL SERVICES)	918,877.74	318,000.00		600,000.00		0.00	918,000.00		877.74
	EPD609 Total			954,610.00	334,641.76		600,000.00		0.00	934,628.51		19,968.24
	EVASE9	SETF EVALUATION	01 (PERSONNEL SERVICES)	54,425.39	21,288.45		0.00		0.00	21,288.45		33,136.94
			02 (NON-PERSONNEL SERVICES)	94,599.40	0.00		0.00		0.00	0.00		94,599.40
	EVASE9 Total			149,024.79	21,288.45		0.00		0.00	21,288.45		127,736.34
	NGG209	HEATING SYSTEM REPAIR, REPLACE & TUNE UP	01 (PERSONNEL SERVICES)	150,624.60	66,072.41		0.00		0.00	66,047.41		84,552.19
			02 (NON-PERSONNEL SERVICES)	907,656.05	507,000.00		400,000.00		0.00	907,000.00		656.05
	NGG209 Total			1,058,280.65	573,072.41		400,000.00		0.00	973,047.41		85,208.24
	NGG309	RESIDENTIAL WEATHERIZATION & EFFICIENCY	01 (PERSONNEL SERVICES)	37,093.16	0.00		0.00		0.00	0.00		37,093.16
			02 (NON-PERSONNEL SERVICES)	971,466.62	0.00		0.00		0.00	0.00		971,466.62
	NGG309 Total			1,008,559.78	0.00		0.00		0.00	0.00		1,008,559.78
	NGG509	ENERGY AWARENESS	01 (PERSONNEL SERVICES)	38,978.97	37,582.15		0.00		0.00	37,582.15		1,394.82
			02 (NON-PERSONNEL SERVICES)	326,638.66	0.00		0.00		0.00	0.00		326,638.66
	NGG509 Total			365,615.63	37,582.15		0.00		0.00	37,582.15		328,033.48
	NGG609	SAVING ENERGY IN D C SCHOOLS	01 (PERSONNEL SERVICES)	49,762.60	25.00		0.00		0.00	0.00		49,737.60
			02 (NON-PERSONNEL SERVICES)	381,611.34	93,289.73		90,710.27		0.00	184,000.00		197,611.34
	NGG609 Total			431,373.94	93,314.73		90,710.27		0.00	184,000.00		247,348.94
	PEPC09	PAYMENT TO PEPCO	02 (NON-PERSONNEL SERVICES)	3,206,771.00	0.00		0.00		0.00	0.00		3,206,771.00
	PEPC09 Total			3,206,771.00	0.00		0.00		0.00	0.00		3,206,771.00
	REPR09	RENEWABLE ENERGY INCENTIVES	01 (PERSONNEL SERVICES)	159,797.38	193,840.36		0.00		0.00	193,784.11		-34,042.98
			02 (NON-PERSONNEL SERVICES)	1,982,800.00	0.00		0.00		0.00	0.00		1,982,800.00
	REPR09 Total			2,142,597.38	193,840.36		0.00		0.00	193,784.11		1,948,757.02
	RFP009	REQUEST FOR PROPOSAL	01 (PERSONNEL SERVICES)	108,507.48	8,328.52		0.00		0.00	8,328.52		100,178.96
			02 (NON-PERSONNEL SERVICES)	225,813.69	0.00		0.00		0.00	0.00		225,813.69
	RFP009 Total			334,321.17	8,328.52		0.00		0.00	8,328.52		325,992.65
	TEC509	HERS, C5	01 (PERSONNEL SERVICES)	53,681.83	13,763.09		0.00		0.00	13,763.09		39,918.74
			02 (NON-PERSONNEL SERVICES)	519,084.17	213,920.00		286,080.00		0.00	500,000.00		19,084.17
	TEC509 Total			572,766.00	227,683.09		286,080.00		0.00	513,738.09		59,002.91
	TEE109	AFFORDABLE HEERP	01 (PERSONNEL SERVICES)	44,806.83	18,217.29		0.00		0.00	18,217.29		26,589.54
			02 (NON-PERSONNEL SERVICES)	106,021.55	0.00		0.00		0.00	0.00		106,021.55
	TEE109 Total			150,828.38	18,217.29		0.00		0.00	18,217.29		132,611.09
	TEE209	WEATHER, RAP	01 (PERSONNEL SERVICES)	31,687.10	14,757.83		0.00		0.00	14,746.08		16,929.27
			02 (NON-PERSONNEL SERVICES)	119,141.28	0.00		0.00		0.00	0.00		119,141.28
	TEE209 Total			150,828.38	14,757.83		0.00		0.00	14,746.08		136,070.55
SETF (Fund 6700) Total				13,693,771.26	2,126,946.18		2,219,667.36		9,000.00	4,355,365.29		9,338,405.97
6800	ADME49	EATF ADMINISTRATION	01 (PERSONNEL SERVICES)	85,475.87	30,342.20		0.00		0.00	30,342.20		55,133.67
			02 (NON-PERSONNEL SERVICES)	13,524.27	0.00		0.00		0.00	0.00		13,524.27
	ADME49 Total			99,000.14	30,342.20		0.00		0.00	30,342.20		68,657.94
	EVAE49	EATF EVALUATION	02 (NON-PERSONNEL SERVICES)	50,786.60	0.00		0.00		0.00	0.00		50,786.60
	EVAE49 Total			50,786.60	0.00		0.00		0.00	0.00		50,786.60
LID109		LIEAP EXPANSION & ENERGY EDUCATION	01 (PERSONNEL SERVICES)	88,285.59	23,780.76		0.00		0.00	23,755.76		64,504.83
			02 (NON-PERSONNEL SERVICES)	1,104,976.91	0.00		0.00		0.00	0.00		1,104,976.91

ATTACHEMENT 2
All Financial Activity
2nd Quarter - As of 3/31/09

Fund Detail	Project No	Project Title	Personnel Services/NonPersonnel Services	Budget		Actual		Purchase		Requisition		YTD	
				Budget	Expenditures	Expenditures	Order Balance	Order Balance	Amt	Balance	Expenditures & Obligations	Expenditures	Available Balance
EATF (Fund 6800) Total	LID109 Total			1,193,262.50	23,780.76	0.00	0.00	0.00	0.00	0.00	23,755.76	1,169,481.74	48,666.20
	LID209	RAD EXPANSION	01 (PERSONNEL SERVICES)	50,287.78	1,621.58	0.00	0.00	0.00	0.00	0.00	1,621.58	48,666.20	792,756.22
			02 (NON-PERSONNEL SERVICES)	911,959.10	119,202.88	0.00	0.00	0.00	0.00	0.00	119,202.88	792,756.22	841,422.42
	LID209 Total			962,246.88	120,824.46	0.00	0.00	0.00	0.00	0.00	120,824.46	841,422.42	5,875.01
	LID309	RAD ARRERAGES	01 (PERSONNEL SERVICES)	7,423.70	1,548.69	0.00	0.00	0.00	0.00	0.00	1,548.69	5,875.01	207,363.55
			02 (NON-PERSONNEL SERVICES)	207,363.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	207,363.55	213,238.56
	LID309 Total			214,787.25	1,548.69	0.00	0.00	0.00	0.00	0.00	1,548.69	213,238.56	59,955.37
	LIG109	RES EXPANSION	01 (PERSONNEL SERVICES)	59,955.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59,955.37	617,119.98
			02 (NON-PERSONNEL SERVICES)	719,961.00	102,841.02	0.00	0.00	0.00	0.00	0.00	102,841.02	617,119.98	677,075.35
	LIG109 Total			779,916.37	102,841.02	0.00	0.00	0.00	0.00	0.00	102,841.02	677,075.35	290,033.38
SOS009 Total	SOS009	STANDARD SERVICE OFFER	02 (NON-PERSONNEL SERVICES)	3,000,000.00	290,033.38	0.00	0.00	0.00	0.00	0.00	290,033.38	2,709,966.62	569,345.51
				6,299,999.74	569,370.51	0.00	0.00	0.00	0.00	0.00	569,345.51	5,730,629.23	4,924,984.05
	EATF (Fund 6800) Total			19,993,771.00	2,696,316.69	2,219,667.36	2,219,667.36	9,000.00	9,000.00	4,924,984.05	15,068,786.95		
Grand Total													

ATTACHEMENT 3
Administrative Budget and Expenditures
2ND Quarter - as of 3/31/09

Fund	Project No	Project Title	PS/NPS Category	Budget	QUARTERLY ACTUAL EXPENDITURES					Total Year-to-date Actual Expenditures
					October - Dec	Jan - March	April - June	July - Sept		
6700	ABOARD	SETF & EATF ADVISORY BOARD	01 (PERSONNEL SERVICES) 02 (NON-PERSONNEL SERVICES)	229,824.88 3,958.83	20,155.60 0.00	33,872.54 2,199.96			54,028.14 2,199.96	
	ABOARD Total			233,783.71	20,155.60	36,072.50			56,228.10	
	ADMSE9	SETF ADMINISTRATION	01 (PERSONNEL SERVICES) 02 (NON-PERSONNEL SERVICES)	221,278.97 2,551.03	38,503.17 0.00	73,878.31 0.00			112,381.48 0.00	
	ADMSE9 Total			223,830.00	38,503.17	73,878.31			112,381.48	
	EPD409	WEATHERIZATION PLUS	01 (PERSONNEL SERVICES)	82,690.60	18,566.38	10,439.47			29,005.85	
	EPD409 Total			82,690.60	18,566.38	10,439.47			29,005.85	
	EPD509	LOW INCOME APPLIANCE REPLACEMENT	01 (PERSONNEL SERVICES)	174,931.23	26,724.18	37,994.59			64,718.77	
	EPD509 Total			174,931.23	26,724.18	37,994.59			64,718.77	
	EPD609	WEATHERIZATION REHAB	01 (PERSONNEL SERVICES)	35,732.26	6,689.40	9,952.36			16,641.76	
	EPD609 Total			35,732.26	6,689.40	9,952.36			16,641.76	
	EVASE9	SETF EVALUATION	01 (PERSONNEL SERVICES)	54,425.39	10,186.97	11,101.48			21,288.45	
	EVASE9 Total			54,425.39	10,186.97	11,101.48			21,288.45	
	NGG209	HEATING SYSTEM REPAIR, REPLACE & TUNE UP	01 (PERSONNEL SERVICES)	150,624.60	39,488.21	26,584.20			66,072.41	
	NGG209 Total			150,624.60	39,488.21	26,584.20			66,072.41	
	NGG309	RESIDENTIAL WEATHERIZATION & EFFICIENCY	01 (PERSONNEL SERVICES)	37,093.16	0.00	0.00			0.00	
	NGG309 Total			37,093.16	0.00	0.00			0.00	
	NGG509	ENERGY AWARENESS	01 (PERSONNEL SERVICES)	38,976.97	20,185.76	17,396.39			37,582.15	
	NGG509 Total			38,976.97	20,185.76	17,396.39			37,582.15	
	NGG609	SAVING ENERGY IN D.C SCHOOLS	01 (PERSONNEL SERVICES) 02 (NON-PERSONNEL SERVICES)	49,762.60 1,450.00	0.00 0.00	25.00 0.00			25.00 0.00	
	NGG609 Total			51,212.60	0.00	25.00			25.00	
	RERP09	RENEWABLE ENERGY INCENTIVES	01 (PERSONNEL SERVICES) 02 (NON-PERSONNEL SERVICES)	159,797.38 2,000.00	18,378.42 0.00	175,461.94 0.00			193,840.36 0.00	
	RERP09 Total			161,797.38	18,378.42	175,461.94			193,840.36	
	RFP009	REQUEST FOR PROPOSAL	01 (PERSONNEL SERVICES)	108,507.48	0.00	8,328.52			8,328.52	
	RFP009 Total			108,507.48	0.00	8,328.52			8,328.52	
	TEC509	HERS, C5	01 (PERSONNEL SERVICES)	53,681.83	6,859.68	6,878.41			13,738.09	
	TEC509 Total			53,681.83	6,859.68	6,878.41			13,738.09	
	TEE109	AFFORDABLE HEERP	01 (PERSONNEL SERVICES)	44,806.83	10,174.76	8,042.53			18,217.29	
	TEE109 Total			44,806.83	10,174.76	8,042.53			18,217.29	
	TEE209	WEATHER, RAP	01 (PERSONNEL SERVICES)	31,687.10	5,932.20	8,825.63			14,757.83	
	TEE209 Total			31,687.10	5,932.20	8,825.63			14,757.83	
SETF (Fund 6700) Total				1,483,781.14	221,844.73	431,006.33			652,851.06	
6800	ADMEA9	EATF ADMINISTRATION	01 (PERSONNEL SERVICES) 02 (NON-PERSONNEL SERVICES)	85,475.87 13,524.27	12,848.60 0.00	17,493.60 0.00			30,342.20 0.00	
	ADMEA9 Total			99,000.14	12,848.60	17,493.60			30,342.20	
	LID109	LIHEAP EXPANSION & ENERGY EDUCATION	01 (PERSONNEL SERVICES)	88,285.59	9,650.86	14,129.90			23,780.76	
	LID109 Total			88,285.59	9,650.86	14,129.90			23,780.76	
	LID209	RAD EXPANSION	01 (PERSONNEL SERVICES)	50,287.78	0.00	1,621.58			1,621.58	
	LID209 Total			50,287.78	0.00	1,621.58			1,621.58	
	LID309	RAD ARRERAGES	01 (PERSONNEL SERVICES)	7,423.70	-5.22	1,553.91			1,548.69	
	LID309 Total			7,423.70	-5.22	1,553.91			1,548.69	
	LIG109	RES EXPANSION	01 (PERSONNEL SERVICES)	59,955.37	0.00	0.00			0.00	
	LIG109 Total			59,955.37	0.00	0.00			0.00	
EATF (Fund 6800) Total				304,952.58	22,494.24	34,798.99			57,293.23	
Grand Total				1,788,733.72	244,338.97	465,805.32	0.00	0.00	710,144.29	

ATTACHMENT 4

MONTHLY ACTUAL EXPENDITURES



ALLIANCE TO SAVE ENERGY'S
Green Schools Program
Empowering Schools Through Energy Efficiency



Highlighted Curriculum

FOR THE ENERGY CLUB...

Home Energy Audit (grades 5 - 12): Students can perform a home energy audit with the template provided. The assignment goes beyond the school energy audit template with many additional factors. The students are provided with charts to guide them in the process.

Producing a Video on Energy Using Persuasive Techniques (grades 4 – 10): Lists best practices for creating a persuasive public service video announcement.

FOR THE CLASSROOM...

HISTORY

Life Without Electricity: Students compare their access to electricity with that of children in Kenya. Students also compare conditions in Kenya with those that their grandparents experienced. Students also discuss how electricity has changed living conditions over time.

MATH

Energy Efficiency Saves Money (Numerical Math or Algebra 1): Students compare the lifetime cost of an efficient refrigerator versus an inefficient refrigerator. You could also compare the lifetime costs of various types of light bulbs. Students in grades 4 or 5 simply calculate the costs by making a numerical chart while students in Algebra 1 create linear equations and graph them to find after how many years the energy efficient refrigerator or light bulb is more cost effective.

How Big Is Your Footprint? (Data Analysis & Statistics standard): Students find the mean, median, mode, and standard deviation for a set of data.

The Appliance Explosion (Data Analysis, Statistics, & Graphing standard): Students conduct a survey about appliance use and then analyze the data and create a bar graph.

The Expensive Light Bulb Is Really Cheaper (Numerical standard): Students perform a numerical exercise to discover that the cost of an energy efficient light bulb is cheaper over time.

Carbon Dioxide Trends (Data Analysis, Statistics standard): Students are provided with the continuous record of atmospheric carbon dioxide concentrations since 1958 and asked to comment on trends in the data.

Energy Audits & Determining the Energy Cost of Exit Lights (Ratios & Proportion standard): Students calculate total cost of energy usage or specifically the cost of using the exit lights by finding out how many lights are in use times hours used per day times days used per year times cost per kilowatt, etc. They must also convert watts to kilowatts.



ALLIANCE TO SAVE ENERGY'S
Green Schools Program
Empowering Schools Through Energy Efficiency



SCIENCE

Energy & Structures at Home combined with Designing Your Home of the Future & Energy Efficient Homes (Scientific Thinking/Investigation & Inquiry standard): Students examine why landscaping and placement of windows affects energy usage in a home and make a sketch of their own homes. Then, students design and build their future homes while considering parameters that influence energy use.

Meter Readers or Monitoring the School's Energy Use (Scientific Thinking/Investigation & Inquiry standard): Students learn how to read electric meters.

The Formation of Fossil Fuels combined with Energy Alternatives (Energy Conservation standard): Students learn how many years it will take to deplete all of the fossil fuels at the current rate and discuss the time necessary to replenish alternative energy sources. They then compare the lifespan for regular and alternative energy methods.

Energy Trade-Offs (Energy Conservation standard): Students participate in a Risk-like game where they are given tokens of food, energy, manufactured goods, and waste, and must negotiate and exchange with other students in order to get the appropriate amount allocated to the country that they represent.

Changing Our Ways & Dear Diary (Energy Conservation standard): Students chart their energy use for one day in order to observe that their actions make a difference as well as contribute to the carbon dioxide in the atmosphere.

Comparing Light Bulb Temperatures (Scientific Thinking & Inquiry standard): Students learn that electricity used is directly proportional to heat output.

Why Is It Hotter When I Wear Black In Summer? (Scientific Thinking & Inquiry standards): Students discover the relationship between color and absorption of heat.

WRITING

The Great Debate (Writing standards): Students are given energy-related debate topics and rubrics. The topics are appropriate for persuasive essays.

The Write Effect: Students are asked to write a cause-and-effect essay.



ALLIANCE TO SAVE ENERGY'S
Green Schools Program
Empowering Schools Through Energy Efficiency



DISTRICT DEPARTMENT
OF THE ENVIRONMENT

Saving Energy in DC Schools End-of-the-year Awards

BEST WEBSITE

The school with the most impressive Google Group website for the Saving Energy in DC Schools program will receive a pizza party at the end of the year for all participating students. Post all final reports, pictures, artwork, articles, and links to Youtube videos on the website!

BEST OUTREACH

The school that best engages the school or residential community in energy conservation awareness will be awarded with energy resources & tools. Ideas of ways to reach the community include fundraisers, visuals, and editorials.

BEST SCHOOL AUDIT

The school that presents the best final report will be awarded with advanced energy technology that will help the school become more energy efficient. Reports will be judged on thoroughness, creativity, impact, and energy and monetary savings.

CURRICULUM (Ongoing)

Teachers, don't forget to submit original energy conservation lesson plans. If the Alliance to Save Energy wants to use one in the instructional binder, you will receive \$100 for your lesson.

Aidan Montessori School (Ward 3): February 13; reviewed how to use the watt meter and trained teachers to use the SEDS Google group

Brookland Education Campus (Ward 5):

On March 4th, Local Project Leaders provided a mini-SEAT training to Brookland Education Campus condensing the full-day curriculum to a 3-hour session. Students learned about where energy comes from, how to use the tool kits, how to calculate energy savings, and they performed an audit of a classroom.

Capital City Public Charter (Ward 1): Meeting on January 16 Jeff Brechbuhl (business manager) and Melissa (science teacher);

Center City Public Charter School (Ward 5): Meeting on January 13th, with Vanessa McCrea (8th grade science teacher);

Gonzaga College High School (Ward 6): On March 31st, we visited Gonzaga to meet with the team leader and energy club students. They have collected extensive data of the lighting levels in various classrooms. Math teachers at Gonzaga have volunteered to have their classes analyze the data and make visual representations such as charts and graphs. In general, students have found that the school is over lit. They have already made a couple of public service videos to advertise their findings, but the students had a successful brainstorming session on how to best involve their community on this issue. They will be documenting all the measures that they take by taking digital photos.

Meeting on January 16 with John Ausema (team leader & AP environmental teacher);

Key Elementary School (Ward 3): SEAT training on February 20; Science Fair on March 6th

Lafayette Elementary School (Ward 4): Meeting with after-school energy club and taught students how to use the tools on February 19

Mann Elementary School (Ward 3): Meeting with energy club and taught students how to use the tools on February 18; Meeting with Marti Goldstone (6th grade teacher), James Chowes (4th grade teacher) on January 14

McKinley Technical High School (Ward 5): A SEAT session was held for 20 11th and 12th graders at McKinley on March 12th. Students were shocked to discover that their school spends over \$50,000/month on electricity on average. They also learned that most of the electricity in the District comes from coal, and saw a video outlining the consequences of burning it.

Meeting with Mike Iacovone (digital media teacher) on January 21

Oyster Adams Elementary School (Ward 3):

Teacher Pam Ross used energy curriculum for her National Board Certification. The school borrowed four extra tool kits so that the students could break up into small groups and each group could perform the experiment. They examined the difference in terms of energy savings of incandescent and florescent light bulbs. Ms. Ross also made sure to videotape the process, so they now have great footage of a energy lesson.

Met with teacher to discuss curriculum that addresses the DC standards on February 20;

Meeting with Pam Ross (3rd grade science teacher) and Jason Hoeksma (8th grade science teacher) on January 23; SEAT Training on November 13th

Prospect Learning Center (Ward 6): Meeting on January 13 with Alva Abdussalaam (science teacher); SEAT Training on November 12

Stoddert Elementary School (Ward 3): Meeting on January 22 with Jinny Choi (3rd grade teacher)

Wilson Senior High School (Ward 3): Meeting on January 22 with Pamela Gardner (librarian) and Bernadine Okoro (science teacher); SEAT training on December 2

Washington International School (Ward 3): SEAT training was held on November 11