

GOVERNMENT OF THE DISTRICT OF COLUMBIA  
District Department of the Environment



October 11, 2013

The Honorable Phil Mendelson  
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 Mendelson:

Pursuant to sections 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 (DDOE) Third Quarterly Report for the April 1, 2013 – June 30, 2013 quarter. This report describes the performance of Sustainable Energy Trust Fund and Energy Assistance Trust Fund programs and expenditures during the quarter ending June 30, 2013. This document reflects DDOE's continuing commitment to making the District more energy efficient and improving the quality of the environment.

Please feel free to contact me or Dr. Taresa Lawrence at 202-671-3313 if you have any questions regarding this report.

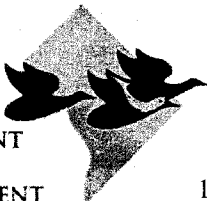
Sincerely,

A handwritten signature in black ink, appearing to read "Keith A. Anderson", is written over the word "Sincerely".

Keith A. Anderson  
Director

Attachments

cc: Councilmember Mary Cheh, Chairperson, Committee on the Environment, Public Works, and Transportation  
DC Councilmembers  
Nyasha Smith, Secretary of the Council



**District Department of the Environment**  
**Clean and Affordable Energy Act Quarterly Report**  
*April 1, 2013 – June 30, 2013*

## **Table of Contents**

<b>INTRODUCTION.....</b>	<b>1</b>
<b>BACKGROUND .....</b>	<b>1</b>
<b>CAEA BUDGET AND EXPENDITURES .....</b>	<b>3</b>
<b><u>SUSTAINABLE ENERGY TRUST FUND.....</u></b>	<b>4</b>
Renewable Energy Incentive Program.....	4
Weatherization Plus Health Program.....	9
Heating Systems Repair, Replacement and Tune Up Program .....	12
<b><u>ENERGY ASSISTANCE TRUST FUND.....</u></b>	<b>15</b>
LIHEAP Extension and Energy Education.....	15
Residential Essential Service Expansion and Awareness Program .....	17

## **Attachments**

Attachment 1 - Revenue Collection

Attachment 2 - All Financial Activity

Attachment 3 - Administrative Budget and Expenditures

Attachment 4 - Monthly Actual Expenditures by Program

## **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 April 1, 2013 – June 30, 2013. This report: 1) describes 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 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 passed the Omnibus Utility Emergency Amendment Act of 2005, which established the Natural Gas Trust Fund ("NGTF") to promote energy efficient gas programs and to provide assistance to low-income gas customers in the District. DDOE was designated as the administrator of all the programs.

This quarterly report is required by the "Clean and Affordable Energy Act of 2008," D.C. Law 17-250, effective October 22, 2008, which replaced the RETF and NGTF programs with the Sustainable Energy Trust Fund ("SETF") and the Energy Assistance Trust Fund ("EATF")

programs, funded by two new utility assessments. The following five programs are currently being administered by DDOE:

**Sustainable Energy Trust Fund**

**1. R1, Renewable Energy Incentive Program**

*Provides financial incentives for and increases the awareness and the use of renewable energy generation technologies by District of Columbia residents, businesses, and institutions.*

**2. D4, Weatherization Plus**

*Provides energy audits, environmental hazard screenings, and financial incentives to help offset the cost of installing the audit recommended energy efficiency measures.*

**3. 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*

**Energy Assistance Trust Fund**

**4. 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.*

**5. G1, Residential Essential Service Expansion and Awareness Program**

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

DDOE has contracted with Vermont Energy Investment Corporation, the prime contractor of the Sustainable Energy Partnership (a team of local partners), to provide programs and initiatives as the District of Columbia Sustainable Energy Utility ("DC SEU"). The DC SEU conducts programs in the District to reduce per-capita energy consumption, increase the number of green collar jobs in the District, stimulate the local economy through contract spending with District businesses, increase renewable energy generating capacity, reduce the growth of peak electricity demand, improve the energy efficiency of low-income housing, and reduce the growth of energy demand of the District's largest energy users. The DC SEU is funded by the SETF. DDOE is appropriated an amount equivalent to ten percent of the DC SEU contract value for administering the contract, and the financial attachments at the end of this report reflect this activity. The DC SEU submits quarterly reports to DDOE, and DDOE files these reports with the Council on behalf of the DC SEU. Both reports can be found on DDOE's web site.

## **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**

<b>Program Name:</b>	Renewable Energy Incentive Program
<b>Program Number:</b>	R1
<b>Reporting Period:</b>	April 1, 2013 – June 30, 2013

### **Project Description**

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

### **Program Status**

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

During the third quarter, the staff completed review and revisions of the administrative documents, terms and conditions, and communications for increased and effective management of the program.

### **Photovoltaic**

Two photovoltaic projects (equivalent to 7.3 kW) received an incentive payment during the third quarter. During the period, the program also received 279 new photovoltaic requests, augmenting the pipeline of requests for incentives. For the fiscal year, the program will support 174 unique projects across the District. This includes a subset of 32 projects qualified under the Renewable Energy Incentive Program for Residents - *Low-Income Option*. In total, these incentive recipients will expend the allocated budget by the end of September 2013.

### **Breakdown by property type (of 2 projects funded)**

Residential: 2      Non-Profit: 0      Commercial: 0      Educational: 0



**Table 1: Renewable Energy Incentive Program Projects Funded by Ward**

	Ward 1	Ward 2	Ward 3	Ward 4	Ward 5	Ward 6	Ward 7	Ward 8	Total
<b>Current Quarter</b>	1	0	0	0	0	1	0	0	2
<b>Cumulative Total</b>	8	0	3	2	3	1	1	1	19

**Table 2: Renewable Energy Incentive Program Deliverables**

Program Deliverables	Quarter Achievement	Cumulative Achievement
Number of Rebates	2	10
Rebate Amounts Awarded	\$20,700.00	\$14,151.50
Residential installations	2	10
Non-profit, business and institutional installations, commercial, educational	0	1
Capacity of Projects Rebated (kW)	7.3	14.8
Kilowatt hours/year capacity awarded (kWh)	2,021	174,595
Energy Value (\$/year @ 13¢/kWh)	\$1,173.33	\$22,686.95
Projected Lifetime Energy (\$/yr @ 13¢/kWh for 25 years)	\$28,583.25	\$821,173.75
Emissions Offset (Avoided)		
Carbon dioxide (pounds)	15,161.76	292,661.06
Nitrogen oxides (pounds)	1.15	106.89
Sulfur dioxide (pounds)	0.52	11.24

\*13¢/kwh represents an approximate rate per kWh based on Pepco's Residential – Schedule R service schedule.

\*\*Emissions coefficients are based on the US Average as stated in table 2.4 of Leonardo Academy Inc. white paper:

"Emission Factors and Energy Prices for Leonardo Academy's Cleaner and Greener® Program" April 2009.

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

Milestone	Goal Date	Actual Date Accomplished
<b>Quarter 3 - April 1, 2013 – June 30, 2013</b>		
Qualify New Applicants for 2013	April 2013	April 2013
Complete Site Visits	Ongoing	Ongoing

### Next Quarter's Projected Goals

In the upcoming quarter, REIP will complete application reviews and disburse incentives to qualified applicants.

**Table 4: Renewable Energy Incentive Program Quarter 3 Timeline and Milestone**

Milestone	Goal Date	Actual Date Accomplished
<b>Quarter 4 - July 1, 2013 – September 30, 2013</b>		
Qualify New Application Review	July 2013	
Complete Site Visits	September 2013	

**Issues and Remedial Plan**

N/A

**Solar Thermal**

There were two solar thermal incentive payments awarded to applicants during the third quarter.

In addition, there were 17 requests for thermal incentives. For the fiscal year, the program will support 16 projects. These, combined with the supported photovoltaic projects, will expend the allocated budget by the end of September 2013.

Breakdown by property type

Residential: 2

Non-Profit: 0

Commercial: 0

Educational: 0

**Table 5: Renewable Energy Incentive Program Projects Funded by Ward**

	Ward 1	Ward 2	Ward 3	Ward 4	Ward 5	Ward 6	Ward 7	Ward 8	Total
<b>Current Quarter</b>	1	0	0	1	0	0	0	0	2
<b>Cumulative Total</b>	1	1	0	1	0	1	0	0	4

**Table 6: Renewable Energy Incentive Program Deliverables**

Program Deliverables	Quarter Achievement	Cumulative Achievement
Number of Rebates	2	2
Rebate Amounts Awarded	\$0	\$0
Residential Installations	0	0
Non-profit, business and institutional installations, commercial or institutional	0	0
Capacity of Projects Rebated (kW <sub>e</sub> ) (kilowatt equivalent)	14.7	14.7
Kilowatt hours/year capacity awarded (kW <sub>he</sub> )	24,390	24,390
Energy Value (\$/year @ 13¢ a kW <sub>he</sub> )	\$1,175	\$1,092.50
Projected Lifetime Energy (\$/yr @ 13¢ a kW <sub>he</sub> for 25 years)	\$29,375	\$29,375
Emissions Offset (Avoided)		
Carbon dioxide (pounds)	18,058.6	9,523.5
Nitrogen oxides (pounds)	1,459	692.7
Sulfur dioxide (pounds)		17.6

\*Emissions coefficients are based on the US Average as stated in table 2.4 of Leonardo Academy Inc. white paper: "Emission Factors and Energy Prices for Leonardo Academy's Cleaner and Greener® Program" April 2009.

**Table 7: Renewable Energy Incentive Program Quarter 3 Timeline and Milestones**

Milestone	Goal Date	Actual Date Accomplished
<b>Quarter 3 - April 1, 2013 – June 30, 2013</b>		
Qualify New Applicants for 2013	August 2013	Ongoing
Complete Site Visits	Ongoing	Ongoing

### Next Quarter's Projected Goals

In the upcoming quarter, REIP solar thermal program will continue to accept and qualify new applicants to meet 2013 fiscal year goals.

**Table 8: Renewable Energy Incentive Program Quarter 3 Timeline and Milestone**

Milestone	Goal Date	Actual Date Accomplished
<b>Quarter 4 - July 1, 2013 – September 30, 2013</b>		
Qualify New Applicants for 2013	July 2013	
Complete Site Visits	September 2013	

## **Issues and Remedial Plan**

None

<b>Program Name:</b>	Weatherization Plus Health Program (WPHP)
<b>Program Number:</b>	D4
<b>Reporting Period:</b>	April 1, 2013 – June 30, 2013

### **Project Description**

The Weatherization Plus Health Program (WPHP) combines technical and financial resources for energy, health, and safety to ensure efficient and healthy indoor environments in low-income homes located in the District of Columbia. The program provides energy audits, environmental hazards screenings, and financial incentives to help offset the cost of installing the audit-recommended energy efficiency measures. The desired outcomes of this program are to help offset the financial burden of rising energy costs, and educate District residents about home hazards that affect the health and safety of their homes.

### **Program Status**

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

### **Program Accomplishments**

The program completed the income qualification requirement, and conducted energy audits for a 190 unit housing complex. To qualify for this program 66% of the building's residents must be low income. In addition, one 12-unit building, one 13-unit building, and three 4-unit buildings have been identified, income qualified, audited and assigned to community based organizations (CBO) with subgrant agreements for implementation. Also during this quarter, the WPHP received 43 additional applications, for which DDOE will conduct income verification and perform audits for applicable units. Implementation of audit identified measures is expected to be completed by the end of September 2013 to fully expend the program's budget.

**Table 9: WPHP Deliverables**

Program Deliverable	Quarter Achievement	Cumulative Achievement	Program Goal
Applications Received	270	270	6
Audits Completed	242	240	6
Installations	1	2	6

**Table 10: WPHP Participants by Ward**

	Ward 1	Ward 2	Ward 3	Ward 4	Ward 5	Ward 6	Ward 7	Ward 8	Total
<b>Current Quarter</b>	2	0	0	5	15	4	218	28	270
<b>Cumulative Total</b>	3	0	0	5	19	6	221	33	287

**Table 11: WPHP Quarter 3 Timeline and Milestones**

Milestone	Goal Date	Actual Date
<b>Quarter 3 - April 1, 2013 – June 30, 2013</b>		
Identify and recruit homes for Participation in the program	April 30, 2013	April 30, 2013
Conduct energy audit and environmental Screening	May 31, 2013	May 31, 2013
Install recommended energy efficient, health and safety measures	June 30, 2013	Ongoing
Review monthly reports submitted by CBO	June 30, 2013	Ongoing

### Next Quarter's Projected Goals

**Table 12: WPHP Quarter 4 Timeline and Milestone**

Milestone	Goal Date	Actual Date
<b>Quarter 4 - July 1, 2013 – September 30, 2013</b>		
Identify and recruit homes for participation in the program	July 30, 2013	
Conduct Energy audit and environmental screening	August 30, 2013	
Install recommended energy efficient, health and safety measures	September 30, 2013	

Review monthly reports submitted by CBO	September 30, 2013	
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### **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>	April 1, 2013 – June 30, 2013

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

### **Program Accomplishments**

During the quarter the program received a total of 61 applications for heating system service from single-family low-income homeowners. Requests received due to no heat or hot water in the home were deemed emergencies. All emergency requests received service within 72 hours from the date of application. Table 13 below provides a breakdown of the number and type of work completed, and Table 14 provides a breakdown of clients served throughout the Wards.



**Table 13: Heating System Repair, Replacement, and Tune-Up Program Deliverables\***

Program Deliverable	Quarter Achievement	Cumulative Achievement	Program Goal
# of Repairs Completed	10 (Emergency)	46	40
# of Replacements Completed	20 (Emergency) 1 (Regular)	81	153
# of Tune-Ups Completed	14 (Emergency)	2	20
# of Hot Water Heaters Completed	12 (Emergency) 1 (Regular)	36	30

\* 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 14: Heating System Repair, Replacement, and Tune-Up Program Participants by Ward**

	Ward 1	Ward 2	Ward 3	Ward 4	Ward 5	Ward 6	Ward 7	Ward 8	Total
Current Quarter	29	1	0	5	7	2	11	6	61
Cumulative Total	38	1	0	28	31	20	46	24	188

**Table 15: Heating System Repair, Replacement, and Tune-Up Program Quarter 3 Timeline and Milestones**

Milestone	Goal Date	Actual Date
<b>Quarter 3 - April 1, 2013 – June 30, 2013</b>		
Identify and recruit homes for participation in heating system program	May 2013	May 2013
Conduct energy audit/assessment and emergency intake	May 2013	May 2013
Install recommended energy efficient heating systems and/or repairs	May 2013	May 2013
Review monthly reports submitted by CBO's	May 2013	May 2013

### Next Quarter's Projected Goals

**Table 16: Heating System Repair, Replacement, and Tune-Up Program Quarter 4**

Milestone	Goal Date	Actual Date
<b>Quarter 4 - July 1, 2013 – September 30, 2013</b>		
Identify and recruit homes for participation in heating system program	August 31, 2013	
Conduct energy audit/assessment and emergency intake	August 31, 2013	
Install recommended energy efficient heating systems and/or repairs	September 30, 2013	

Review monthly reports submitted by CBO's	September 30, 2013	
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### **Issues and Remedial Plan**

None

## Energy Assistance Trust Fund

<b>Program Name:</b>	LIHEAP Expansion and Energy Education
<b>Program Number:</b>	D1
<b>Reporting Period:</b>	April 1, 2013 – June 30, 2013

### Program Description

The Low-Income Home Energy Assistance Program (“LIHEAP”) Expansion and Energy 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 falling short of expectations
- ☒ Program is on Target
- ☐ Program is exceeding expectations

### Program Accomplishments

The LIHEAP Expansion and Energy Education Program enrolled 1,340 eligible District residents this quarter. DDOE continues to hold educational workshops for customers that enroll in the LIHEAP Program. The customers learn how to make their homes more energy efficient. The workshops also educate customers on how to weatherize their homes and provide tips on decreasing their heating and cooling costs.

**Table 17: LIHEAP Expansion Deliverables**

Program Deliverable	Quarter Achievement	Cumulative Achievement	Program Goal
Enroll Additional Participants	1,340	16,544	N/A

**Table 18: LIHEAP Expansion Quarter 3 Timeline and Milestones**

Milestone	Goal Date	Actual Date
<b>Quarter 3 - April 1, 2013 – June 30, 2013</b>		
Serve Additional eligible District Households (electric)	June 2013	June 2013
Continue educational workshops	June 2013	June 2013

## Next Quarter's Projected Goals

**Table 19: LIHEAP Expansion Quarter 4 Timeline and Milestones**

<b>Milestone</b>	<b>Goal Date</b>	<b>Actual Date</b>
<b>Quarter 4 - July 1, 2013 – September 30, 2013</b>		
Serve additional eligible District households (electric)	September 2013	
Continue educational workshops	September 2013	

## Issues and Remedial Plan

None

<b>Program Name:</b>	Residential Essential Service ("RES") Expansion and Awareness Program
<b>Program Number:</b>	G1
<b>Reporting Period:</b>	April 1, 2013 – June 30, 2013

### Project Description

The Residential Essential Service ("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 follows the same enrollment schedule as the RES program which extends its services until April 30, 2013.

### Program Status

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

### Program Accomplishments

During the third quarter, 5,162 participants applied for the program and 1,099 were new participants.

Table 20: RES Expansion Deliverables

Program Deliverable	Quarter Achievement	Cumulative Achievement	Program Goal
Enroll Additional Participants	1,099	5,339	1,099

Table 21: RES Expansion Participants by Ward

	Ward 1	Ward 2	Ward 3	Ward 4	Ward 5	Ward 6	Ward 7	Ward 8	Total
Current Quarter	39	23	3	128	244	103	274	285	1,099
Cumulative Total	238	102	21	581	1,176	569	1,258	1,394	5,339

Table 22: RES Expansion Quarter 3 Timeline and Milestones

Milestone	Goal Date	Actual Date
<b>Quarter 3 - April 1, 2013 – June 30, 2013</b>		
Increase program participation rate by 30% among eligible customers	June 2013	June 2013

## Next Quarter's Projected Goals

**Table 23: RES Expansion Quarter 4**

<b>Milestone</b>	<b>Goal Date</b>	<b>Actual Date</b>
<b>Quarter 4 - July 1, 2013 – September 30, 2013</b>		
Increase program participation rate by 30% among eligible customers	September 2013	

## Issues and Remedial Plan

None