

Applicant Name: City of Lowell, Inc Award Number: DE-FOA-0000148

**Budget Information - Non Construction Programs**  
 UMB Approval No. 0348-0044

**Section A - Budget Summary**

Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Estimated Unobligated Funds		New or Revised Budget
		Federal (c)	Non-Federal (d)	Federal (e)
1. Direct Grants				\$612,503
2. UML Assistanceship				\$33,333
3. Grant Administration (Inc. Project Manager)				\$102,158
4.				
5. Totals		\$0	\$0	\$747,994

**Section B - Budget Categories**

6. Object Class Categories	Grant Program, Function or Activity		
	(1)	(2)	(3)
a. Personnel	\$77,234	\$24,924	
b. Fringe Benefits			
c. Travel			
d. Equipment			
e. Supplies			
f. Contractual		\$33,333	\$14,792
g. Construction			
h. Other			
i. Total Direct Charges (sum of 6a-6h)			
j. Indirect Charges			
k. Totals (sum of 6i-6j)			
7. Program Income			

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**Section C - Non-Federal Resources**

(a) Grant Program	(b) Applicant	(c) State
8. National Grid Contributions		
9. Property Owner Contributions		
10. Other Federal		
11.		

12. Total (sum of lines 8 - 11)		\$0	\$0
<b>Section D - Forecasted Cash Needs</b>			
	Total for 1st Year	1st Quarter	2nd Quarter
13. Federal	\$1,700,000	\$425,000	\$425,000
14. Non-Federal	\$4,500,000	\$1,125,000	\$1,125,000
15. Total (sum of lines 13 and 14)	\$6,200,000	\$1,550,000	\$1,550,000
<b>Section E - Budget Estimates of Federal Funds Needed for Balance of the Project</b>			
(a) Grant Program		Future Funding Periods (Years)	
		(b) First	(c) Second
16. Direct Grants	Direct Grants	Direct Grants	\$612,503
17. UML Assistanceship	UML Assistanceship	UML Assistanceship	\$33,333
18. Grant Administration (Inc.	Grant Administration (Inc.	Grant Administration (Inc.	\$102,158
19.			
20. Total (sum of lines 16-19)		\$747,994	\$0
<b>Section F - Other Budget Information</b>			
21. Direct Charges		22. Indirect Charges	
23. Remarks			

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**Instructions for the SF-424A**

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**Section A. Budget Summary Lines 1-4 Columns (a) and (b)**

For applications pertaining to a single Federal grant program (Federal Domestic Assistance Catalog number) and not requiring a functional or activity breakdown, enter on Line 1 under Column (a) the catalog program title and the catalog number in Column (b).

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For continuing grant program applications, submit these forms before the end of each funding period as required by the grantor agency. Enter in Columns (c) and (d) the estimated amounts of funds which will remain unobligated at the end of the grant funding period only if the Federal grantor agency instructions provide for this. Otherwise, leave these columns blank. Enter in columns (e) and (f) the amounts of funds needed for the upcoming period. The amount(s) in Column (g) should be the sum of amounts in Columns (e) and (f).

For supplemental grants and changes to existing grants, do not use Columns (c) and (d). Enter in Column (e) the amount of the increase or decrease of Federal funds and enter in Column (f) the amount of the increase or decrease of non-Federal funds. In Column (g) enter the new total budgeted amount (Federal and non-Federal) which includes the total previous authorized budgeted amounts plus or minus, as appropriate, the amounts shown in Columns (e) and (f). The amount(s) in Column (g) should not equal the sum of amounts in Columns (e) and (f).

Line 5—Show the totals for all columns used.

**Section B. Budget Categories**

In the column headings (a) through (4), enter the titles of the same programs, functions, and activities shown on Lines 1-4, Column (a), Section A. When additional sheets are prepared for Section A, provide similar column headings on each sheet. For each program, function or activity, fill in the total requirements for funds (both

multiple programs where none of the programs require a breakdown by function or activity, enter the catalog program title on each line in Column (a) and the respective catalog number on each line in Column (b).

For applications pertaining to multiple programs where one or more programs require a breakdown by function or activity, prepare a separate sheet for each program requiring the breakdown. Additional sheets should be used when one form does not provide adequate space for all breakdown of data required. However, when more than one sheet is used, the first page should provide the summary totals by programs.

#### Lines 1-4, Columns (c) through (g)

For new applications, leave Columns (c) and (d) blank. For each line entry in Columns (a) and (b), enter in Columns (e), (f), and (g) the appropriate amounts of funds needed to support the project for the first funding period (usually a year).

#### Section C. Non-Federal Resources

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Lines 8-11—Enter amounts of non-Federal resources that will be used on the grant. If in-kind contributions are included, provide a brief explanation on a separate sheet.

Column (a)—Enter the program titles identical to Column (a), Section A. A breakdown by function or activity is not necessary.

Column (b)—Enter the contribution to be made by the applicant.

Column (c)—Enter the amount of the State's cash and in-kind contribution if the applicant is not a State or State agency. Applicants which are a State or State agencies should leave this column blank.

Column (d)—Enter the amount of cash and in-kind contributions to be made from all other sources.

Column (e)—Enter totals of Columns (b), (c), and (d).

Line 12—Enter the total for each of Columns (b)-(e). The amount in Column (e) should be equal to the amount on Line 5, Column (f) Section A.

#### Section D. Forecasted Cash Needs

Line 13—Enter the amount of cash needed by quarter from the grantor agency during the first year.

Line 14—Enter the amount of cash from all other sources needed by quarter during the first year.

Line 15—Enter the totals of amounts on Lines 13 and 14.

Federal and non-Federal) by object class categories.

Lines 6a-i—Show the totals of Lines 6a to 6i in each column.

Line 6j—Show the amount of indirect cost.

Line 6k—Enter the total of amounts on Lines 6i and 6j. For all applications for new grants and continuation grants the total amount in column (5), Line 6k, should be the same as the total amount shown in Section A, Column (g), Line 5. For supplemental grants and changes to grants, the total amount of the increase or decrease as shown in Columns (1)-(4), Line 6k should be the same as the sum of the amounts in Section A, Columns (e) and (f) on Line 5.

Line 7—Enter the estimated amount of income, if any, expected to be generated from this project. Do not add or subtract this amount from the total project amount. Show under the program narrative statement the nature and source of income. The estimated amount of program income may be considered by the federal grantor agency in determining the total amount of the grant.

#### Section E. Budget Estimates of Federal Funds Needed for Balance of the

Program

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Lines 16-19—Enter in Column (a) the same grant program titles shown in Column

(a), Section A. A breakdown by function or activity is not necessary. For new applications and continuation grant applications, enter in the proper columns amounts of Federal funds which will be needed to complete the program or project over the succeeding funding periods (usually in years). This section need not be completed for revisions (amendments, changes, or supplements) to funds for the current year of existing grants.

If more than four lines are needed to list the program titles, submit additional schedules as necessary.

Line 20—Enter the total for each of the Columns (b)-(e). When additional schedules are prepared for this Section, annotate accordingly and show the overall totals on this line.

#### Section F. Other Budget Information

Line 21—Use this space to explain amounts for individual direct object-class cost categories that may appear to be out of the ordinary or to explain the details as required by the Federal grantor agency.

Line 22—Enter the type of indirect rate (provisional, predetermined, final or fixed) that will be in effect during the funding period, the estimated amount of the base to which the rate is applied, and the total indirect expense.

Line 23—Provide any other explanations or comments deemed necessary.



Non-Federal (f)	Total (g)
	\$612,503
	\$33,333
	\$102,158
	\$0
	\$747,994

(4)	Total (5)
	\$102,158
\$2,546	\$2,546
	\$48,125
	\$0

SF-424A (Rev. 4-92)

Prescribed by OMB Circular A-102

(d) Other Sources	(e) Totals
\$1,750,000	\$1,750,000
1055000	1055000
\$11,200,000	\$11,200,000
	\$0

\$14,005,000	\$14,005,000
3rd Quarter	4th quarter
\$425,000	\$425,000
\$1,125,000	\$1,125,000
\$1,550,000	\$1,550,000

(d) Third	(e) Fourth
\$0	\$0

## **Energy Efficiency and Conservation Block Grant Application – Budget Justification**

### **Personnel**

The City anticipates hiring a technical consultant to provide project management services for all phases of program implementation. See the attached draft job description for a complete scope of work and responsibilities. It is expected that these services will be utilized during the full three years of the EECBG program. The amount allocated to this activity is based on competitive rates for similar project management services of the same scale and timeframe.

Funds allocated under the Grant Administration program function will be used to fund a number of Lowell administration employees charged with managing grant funds and communicating reports according to the Energy Efficiency and Conservation Block Grant standards.

### **Travel**

We do not anticipate any substantial travel expenses to be incurred with the proposed retrofit strategy. The following travel budget detail includes an estimate for a U.S. Department of Energy project review for each program year and an estimate of in-state travel to regional meetings and conferences. In-state travel is expected to be minimal as a majority of project meetings will take place downtown Lowell, but assumes an annual meeting with project partners and the Massachusetts Department of Environmental Resources.

### **Equipment/ Supplies/ Construction**

A specific retrofit or building rehabilitation has not been identified nor have specific energy enhancements been identified for implementation district wide. Each building will undergo a whole building assessment prior to developing an energy strategy for implementing efficiency enhancements, at that point the building owner/ manager will work with National Grid, the Project Manager, and Historic Board staff to identify enhancements that are financially feasible and meet the Secretary of the Interior's standards for Historic Preservation. Our project costs allocation are based on estimates provided by National Grid for the average cost of retrofits for large commercial facilities and multi-family buildings. We expect that equipment, supply, and construction costs will vary on project basis.

### **Contractual**

We will be partnering with the University of Massachusetts at Lowell Engineering Department to provide technical assistance to the program Project Manager and companies providing whole building assessments. Students will provide before and after energy efficiency retrofits energy benchmarking assistance, and impact analysis. Students will also provide technical assistance to determine if renewable energy facilities are feasible and identify additional funding sources to implement them if the property owner chooses to pursue renewable facilities. The yearly cost includes graduate assistant stipends and faculty oversight of student work.

The Lowell Development and Financial Corporation (LDFC) will be providing loan management assistance for the proposed low-interest energy efficiency loan. LDFC will be charging 1 basis point to provide all administrative services of managing the \$4.5 million loan, for a total cost over the three year program period of \$44,375. The City of Lowell will engage consultant(s) to manage all aspects of the marketing and promotion of the program. The consultant(s) will prepare digital and printed program information collateral as well as develop and manage a promotional website for the *Carbon-Neutral Lowell Park and Preservation District* initiative. We expect based on experience with implementing a recent cultural/arts marketing and public relations campaign a total cost of \$80,000 over a 15-month period. We estimate \$51,000 for the development and implementation of the media campaign and \$29,000 for the production and distribution of marketing materials.

**Personnel Costs**

Task Title	Position Title	Budget Period 1			Budget Period 2			Budget Period 3			Total Hour	Total Dollars	Rate Basis
		Time	Pay Rate	Total Budget Period 1	Time	Pay Rate	Total Budget Period 2	Time	Pay Rate	Total Budget Period 3			
Project Manager (Consultant)	Project Manager	1820	40.00	\$72,800	1820	41.20	\$74,984	1820	42.44	77,234	5460	\$225,018	Proposed Salary
Grant Administration	Grant Administration	900	26.10	\$23,493	900	26.89	\$24,198	900	27.69	24,924	2700	\$72,616	Actual Salary

**Travel Costs**

Purpose of Travel	No. of Travelers	Depart From	Destination	No of Days	Cost / Traveler	Cost / Trip	Basis for Estimate
DOE Project Review	2	Boston MA/ Manchester NH	Unknown	3	\$1,250.00	\$2,500.00	Internet Prices
In-state Travel	2			N/A	\$23.20	\$46.40	Previous Experience
Budget Period Two							
DOE Project Review	2	Boston MA/ Manchester NH	Unknown	3	\$1,250.00	\$2,500.00	Internet Prices
In-state Travel	2			N/A	\$23.20	\$46.40	Previous Experience
Budget Period Three							
DOE Project Review	2	Boston MA/ Manchester NH	Unknown	3	\$1,250.00	\$2,500.00	Internet Prices
In-state Travel	2			N/A	\$23.20	\$46.40	Previous Experience

**Partner/ Vendor Budget**

Sub/Recipient	Purpose/ Tasks in SOPO	Budget Period 1 Costs	Budget Period 1 Costs	Budget Period 1 Costs	Project Total
University of Massachusetts at Lowell SLICE program	Partner to provide technical assistance to the Project Manager and consultants providing whole building assessments and Benchmarking before and after energy efficiency retrofits	\$ 33,333	\$ 33,333	\$ 33,333	\$ 100,000
Lowell Development and Financial Corporation	Partner to provide energy efficiency loan administration	\$ 14,791.67	14791.66667	14791.66667	\$ 44,375
<b>Vendor Name/Organization</b>	<b>Product of Service Purpose/Need and Basis of Cost</b>				
PR & Marketing Firm	Marketing and Public Relations firm. Will develop, and implement a promotion and outreach campaign.	\$60,000.00	\$20,000.00	\$0.00	\$ 80,000

**American Recovery and Reinvestment Act of 2009, P.L. 11-5**  
**Additional Budget Justification Information for Davis-Bacon Act**

The Carbon-Neutral Lowell Park and Preservation District initiative intends fully to comply with prevailing wage and labor requirements set forth in the Davis-Bacon and Related Acts (DBRA). For all contractors and subcontractors performing on federally funded or assisted contracts in excess of \$2,000 for the construction, alteration, or repair (including painting and decorating) of public buildings or public works, the City of Lowell will ensure that strict adherence to these regulations is followed.

Covered contractors will maintain payroll and basic records for all laborers and mechanics during the course of the work and for a period of three years thereafter. Records to be maintained include:

- Name, address, and Social Security number of each employee
- Each employee's work classifications
- Hourly rates of pay, including rates of contributions or costs anticipated for fringe benefits or their cash equivalents
- Daily and weekly numbers of hours worked
- Deductions made
- Actual wages paid
- If applicable, detailed information regarding various fringe benefit plans and programs, including records that show that the plan or program has been communicated in writing to the laborers and mechanics affected
- If applicable, detailed information regarding approved apprenticeship or trainee programs

Each covered contractor and subcontractor will, on a weekly basis, provide the federal agency a copy of all payrolls providing the information listed above under "Recordkeeping" for the preceding weekly payroll period. Each payroll submitted must be accompanied by a "Statement of Compliance." The contractor, subcontractor or the authorized officer or employee of the contractor or subcontractor who supervises the payment of wages will sign the weekly statement. This will be completed within seven days after the regular pay date for the pay period.

**NEPA FORM  
U.S. DEPARTMENT OF ENERGY  
ENVIRONMENTAL SUMMARY**

The Department of Energy (DOE) is required by the National Environmental Policy Act (NEPA) of 1969 as amended (42 U.S.C. 4332(2), 40 CFR parts 1500-1508) and DOE implementing regulations (10 CFR 1021) to consider the environmental effects resulting from federal actions, including providing financial assistance. Please provide the following information to facilitate DOE's environmental review.

**PART I: General Information**

Title: **Carbon-Neutral Lowell Park and Preservation District**

FOA Number: **DE-FOA-0000148**

**1. Please describe the intended use of DOE funding in your proposed plan. For example, would the funding be applied to the entire project or only support a phase of the project? Describe the activity as specifically as possible, i.e. planning, feasibility study, design, data analysis, education or outreach activities, construction, capital purchase and/or equipment installation or modification.**

The proposed *Carbon-Neutral Lowell Park and Preservation District* project will allow the City of Lowell to partner with utilities providers, local business owners, the Lowell Finance and Development Corporation (LFDC), and members of the University of Massachusetts—Lowell research community to develop and implement an energy efficiency retrofitting program with the potential to significantly decrease the Downtown Lowell/ National Historic Park district's dependence on traditional fossil fuel energies.

The \$9,845,344 in requested EECBG monies will be used to support five program components: "large project incentives," "small project incentives," "Net Zero Demonstration Projects," "loan programs," and "grant programs." Additionally, funds would be used to support data collection measures by providing funds for several UMass-Lowell graduate student assistantships; allow the City to provide salaries and benefits to three (3) Project Managers charged with overseeing the program; pay a loan origination fee to the Lowell Development & Financial Corporation (LDFC) to support an ongoing loan fund; pay for a marketing campaign of the program; and allocate resources to the grant administration process. The proposed initiative will employ an innovative financing strategy which will allow it to become self sustaining and continue well beyond the three-year grant period. The City anticipates that as many as forty-seven (47) retrofit projects could be completed over a six year period.

The City of Lowell's proposed *Carbon-Neutral Lowell Park and Preservation District* leverages the Retrofit Ramp-up dollars by maximizing existing incentives currently available through energy efficiency programs offered by National Grid, State and Federal incentives, and direct investment by the property owner or owners who will receive the direct benefit of long term energy savings by participating in the program. *We expect to leverage outside funding at a ratio of approximately six dollars for every dollar (6:1) of EECBG funds expended.* The amount of funds leveraged will vary by building type and the magnitude of energy efficiency sought in the retrofit. Table 1 on the next page details how these funds will be leveraged.

**Table 1: Downtown Lowell EECBG Retrofit Ramp-Up Fund Leverage**

Component		Quantity	Unit Cost	Total
<b>Large Projects</b>				
	EECBG Funds	8	\$ 500,000	\$ 4,000,000
	Utility Direct Grant	8	\$ 1,009,000	\$ 8,072,000
	Owner Contribution	8	\$ 500,000	\$ 4,000,000
<b>Small Projects</b>				
	EECBG Funds	20	\$ 75,000	\$ 1,500,000
	Utility Direct Grant	20	\$ 105,000	\$ 2,100,000
	Owner Contribution	20	\$ 25,000	\$ 500,000
<b>Net Zero Demonstration Projects</b>				
	EECBG Funds	2	\$ 1,687,500	\$ 3,375,000
	Utility Direct Grant	2	\$ 759,000	\$ 1,518,000
	Owner Contribution	2	varies	\$ 35,000,000
<b>Grant Administration</b>				
	UML Assistanceships & Faculty TA Support	5	\$ 20,000	\$ 100,000
	Project Manager Salary & Benefits	3	\$ 75,000	\$ 225,000
	LDFC Loan Fees (1 pt)			\$ 44,375
	PR & Marketing Program			\$ 60,000
	Grant Administration			\$ 75,000
<b>Cumulative Fund Balance**</b>				
				\$ 5,780,880
<b>Total EECBG Funds</b>				<b>\$ 9,379,375</b>
<b>Total Leveraged Funds</b>				<b>\$ 56,970,880</b>
Total Utility Contribution				\$ 11,690,000
Owner Contribution				\$ 45,280,880
<b>Total</b>				<b>\$ 66,350,255</b>

Source: City of Lowell Division of Planning and Development

2. Does any part of your project require review and/or permitting by any other federal, state, regional, local, environmental, or regulatory agency? Yes No

3. Has any review (e.g., NEPA documentation, permits, agency consultations) been completed? Yes No

**4. Provide information about the potential environmental issues, concerns, and impacts associated with your proposal. Please provide as much detail as possible in the following areas: specifics of proposed activities, project locations, size, layout, commitments to waste management and historic preservation. If project specific information is unknown, describe your plan for obtaining this information.**

It is anticipated that the only NEPA threshold that this proposed program will encounter is historic preservation. Because the project proposes to impact numerous contributing structures to a historic district listed on the National Register of Historic Places, coordination with state and federal regulatory authorities will be required. However, because the project proposes to address energy retrofits within the parameters of the Secretary of the Interior's Standards for Historic Preservation and enjoys the partnership support of the local historic board and National Park Service, we anticipate that it will result in a finding of no significant impact.

By partnering with National Grid and the Lowell Finance & Development Corporation to provide financial incentives in the form of loans and grants as described above, the City estimates that as many as 47 individual buildings could be retrofitted over a period of six years. This initiative will in fact have a very positive impact on the environment; energy efficiency retrofit improvements have the potential to reduce total kWh usage in the Downtown Historic District by as much as 50,000,000 kWh over six years. These reduction estimates include retrofit projects initiated during the three year grant period as well as those performed once the grant period has concluded and the program has become financially independent and self-sustaining. This reduction would have the cumulative effect of reducing CO2 greenhouse gas (GHG) emissions by as much as 230,117 million metric tons (MMT) over six years.

Appendix G: Project Impact Table

Project Impact Metrics	Project Period			Post Project Period		
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Number of Buildings Retrofitted	16	11	3	3	3	3
Total square footage of buildings retrofitted	1,300,000	650,000	250,000	75,000	75,000	75,000
Average Utility Savings	5,200,000	2,600,000	1,000,000	300,000	300,000	300,000
Electric (kWh)	1768000	884,000	340,000	102,000	102,000	102,000
Gas/Oil (KWh)	3432000	1,716,000	660,000	198,000	198,000	198,000
Jobs Created or Retained	160	90	30	15	15	15
Average Emissions reductions (MMT CO2) per unit	1512	756	291	87	87	87
EECBG Funds Expended	\$ 5,000,000	\$ 3,300,000	\$ 1,700,000	-	-	-
Leveraged funds and in-kind resources expended	\$15,000,000	\$ 9,000,000	\$ 4,500,000	\$ 2,400,000	\$ 2,400,000	\$ 2,400,000

Assumptions

- Average annual electrical use before retrofit is 11 kwh/SF
- Average annual gas/oil use before retrofit is 56540 BTU/SF
- Large projects involve 2 buildings, 200,000 SF, and employ 20 construction workers
- Smaller projects involve 1 building, 25,000 SF, and employ 5 construction workers
- Net Zero demonstration projects involve 2 buildings, 50,000 SF, and employ 10 construction workers
- Note: Average Utility Savings determined using assumed 100,000kwh per year per project provided by Mark (Ngrid) and dividing by assumed sq. ft average for small buildings
- Distribution of energy reduction by fuel type was determined by multiplying current proportion by the average utility savings
- emissions reduction determined by multiplying coefficient for electricity & gas fuel types (oil not broken out)

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**Line 5—Show the totals for all columns used.**

**Section B. Budget Categories**

In the column headings (a) through (4), enter the titles of the same programs, functions, and activities shown on Lines 1-4, Column (a), Section A. When additional sheets are prepared for Section A, provide similar column headings on each sheet. For each program, function or activity, fill in the total requirements for funds both

multiple programs where none of the programs require a breakdown by function or activity, enter the catalog program title on each line in Column (a) and the respective catalog number on each line in Column (b).

For applications pertaining to multiple programs where one or more programs require a breakdown by function or activity, prepare a separate sheet for each program requiring the breakdown. Additional sheets should be used when one form does not provide adequate space for all breakdown of data required. However, when more than one sheet is used, the first page should provide the summary totals by programs.

#### Lines 1-4, Columns (c) through (g)

For new applications, leave Columns (c) and (d) blank. For each line entry in Columns (a) and (b), enter in Columns (e), (f), and (g) the appropriate amounts of funds needed to support the project for the first funding period (usually a year).

#### Section C. Non-Federal Resources

Previous Edition Usable

Lines 8-11—Enter amounts of non-Federal resources that will be used on the grant. If in-kind contributions are included, provide a brief explanation on a separate sheet.

Column (a)—Enter the program titles identical to Column (a), Section A. A breakdown by function or activity is not necessary.

Column (b)—Enter the contribution to be made by the applicant.

Column (c)—Enter the amount of the State's cash and in-kind contribution if the applicant is not a State or State agency. Applicants which are a State or State agencies should leave this column blank.

Column (d)—Enter the amount of cash and in-kind contributions to be made from all other sources.

Column (e)—Enter totals of Columns (b), (c), and (d).

Line 12—Enter the total for each of Columns (b)-(e). The amount in Column (e) should be equal to the amount on Line 5, Column (f) Section A.

#### Section D. Forecasted Cash Needs

Line 13—Enter the amount of cash needed by quarter from the grantor agency during the first year.

Line 14—Enter the amount of cash from all other sources needed by quarter during the first year.

Line 15—Enter the totals of amounts on Lines 13 and 14.

Federal and non-Federal) by object class categories.

Lines 6a—Show the totals of Lines 6a to 6h in each column.

Line 6j—Show the amount of indirect cost.

Line 6k—Enter the total of amounts on Lines 6i and 6j. For all applications for new grants and continuation grants the total amount in column (5), Line 6k, should be the same as the total amount shown in Section A, Column (g), Line 5. For supplemental grants and changes to grants, the total amount of the increase or decrease as shown in Columns (1)-(4), Line 6k should be the same as the sum of the amounts in Section A, Columns (e) and (f) on Line 5.

Line 7—Enter the estimated amount of income, if any, expected to be generated from this project. Do not add or subtract this amount from the total project amount. Show under the program narrative statement the nature and source of income. The estimated amount of program income may be considered by the federal grantor agency in determining the total amount of the grant.

#### Section E. Budget Estimates of Federal Funds Needed for Balance of the Project

Prescribed by OMB Circular A-102

Lines 16-19—Enter in Column (a) the same grant program titles shown in Column

(a), Section A. A breakdown by function or activity is not necessary. For new applications and continuation grant applications, enter in the proper columns amounts of Federal funds which will be needed to complete the program or project over the succeeding funding periods (usually in years). This section need not be completed for revisions (amendments, changes, or supplements) to funds for the current year of existing grants.

If more than four lines are needed to list the program titles, submit additional schedules as necessary.

Line 20—Enter the total for each of the Columns (b)-(e). When additional schedules are prepared for this Section, annotate accordingly and show the overall totals on this line.

#### Section F. Other Budget Information

Line 21—Use this space to explain amounts for individual direct object-class cost categories that may appear to be out of the ordinary or to explain the details as required by the Federal grantor agency.

Line 22—Enter the type of indirect rate (provisional, predetermined, final or fixed) that will be in effect during the funding period, the estimated amount of the base to which the rate is applied, and the total indirect expense.

Line 23—Provide any other explanations or comments deemed necessary.

Non-Federal (f)	Total (g)
	\$612,503
	\$33,333
	\$102,158
	\$0
	\$747,994

(4)	Total (5)
	\$102,158
\$2,546	\$2,546
	\$48,125
	\$0

SF-424A (Rev. 4-92)  
 Prescribed by OMB Circular A-102

(d) Other Sources	(e) Totals
\$1,750,000	\$1,750,000
1055000	1055000
\$11,200,000	\$11,200,000
	\$0

	\$14,005,000	\$14,005,000
3rd Quarter		4th quarter
	\$425,000	\$425,000
	\$1,125,000	\$1,125,000
	\$1,550,000	\$1,550,000

(d) Third	(e) Fourth
\$0	\$0

**Appendix:**

**Letters of Support for the  
*Carbon-Neutral Lowell Park and Preservation Initiative***

**Support Letters Received from:**

- Canal Place Condominium Association
- International Brotherhood of Electrical Workers
- Lowell Community Health Center
- Lowell Development & Financial Corporation
- US Department of Interior National Park Service
- Lowell Historic Board
- National Grid
- Northern Middlesex Council of Governments
- Pipefitters Association
- Plumbers and Gasfitters Local 12 Boston
- United Teen Equality Center
- WinnDevelopment

CANAL PLACE 3 CONDOMINIUM ASSOCIATION

200 Market Street #3202

Lowell, MA 01852

December 3, 2009

Office of Energy Efficiency and Renewable Energy  
U.S. Department of Energy  
Attn: Karen Bahan, Grants Officer  
Department of Energy Environmental Management  
Consolidated Business Center  
Cincinnati, OH

RE: Retrofit Ramp Up Grant Program –  
City of Lowell, MA *Carbon-Neutral Lowell Park and Preservation District*

Dear Ms. Bahan:

On behalf of the residents of Canal Place it is our great pleasure to express our support for and partner with the City of Lowell's Division of Planning and Development (DPD) to implement *A Carbon-Neutral Lowell Park and Preservation District*. We are excited to participate in this initiative to substantially reduce energy consumption in Lowell's downtown preservation district through targeted interventions in building systems.

Specifically, we would welcome the opportunity for our Canal Place properties to be participants in and beneficiaries of this program. Our 113-unit residential condominium building directly abuts both the Lowell National Historic Park Visitor Center and the Hamilton Canal District project (which is expected to achieve LEED certification) we are hopeful that through this process we will have the ability to retrofit our 30-year-old heating systems, which also services our sister building of 54 units, as well as replace inefficient windows. These changes would significantly reduce the overall energy consumption of 167 residential units.

We look forward to working with DPD and other partners to demonstrate how energy efficiency and sustainability can work in concert with historic preservation goals and contribute to the revitalization of a City as well as the protection of the environment.

Sincerely,



Carol Sullivan

Chair, Canal Place 3 Board of Trustees



**Local 103**  
OF GREATER  
B O S T O N

*International Brotherhood of Electrical Workers*

256 FREEPORT STREET • DORCHESTER, MASSACHUSETTS 02122

TELEPHONE: (617) 436-3710 FAX: (617) 436-3299

TOLL FREE: (800) 218-0075

WEBSITE: [www.the103advantage.com](http://www.the103advantage.com)



December 10, 2009

Ms. Karen Bahan, Grants Officer  
Office of Energy Efficiency and Renewable Energy  
U.S. Department of Energy  
Environmental Management Consolidated Business Center  
250 E Fifth Street, Suite 500  
Cincinnati, OH 45202

RE: Retrofit Ramp Up Grant Program –  
City of Lowell, MA *Carbon-Neutral Lowell Park and Preservation District*

Dear Ms. Bahan:

It is our great pleasure to express our support for and partner with the City of Lowell's Division of Planning and Development (DPD) to implement *A Carbon-Neutral Lowell Park and Preservation District*. We are excited to participate in this initiative to substantially reduce energy consumption in Lowell's downtown preservation district through targeted interventions in building systems.

We look forward to working with DPD and other partners to demonstrate how energy efficiency and sustainability can work in concert with historic preservation goals and contribute to the revitalization of a City as well as the protection of the environment.

Business Agent Lou Antonellis is our contact person on this project to partner with the City. Should you have any questions or seek additional information from us, please don't hesitate to contact Lou at 617-436-3299, ext. 5.

Sincerely,

*Michael P. Monahan*

Michael P. Monahan  
Business Manager

/jmf



585-597 Merrimack Street  
Lowell, MA 01854-3908

---

December 3, 2009

Ms. Karen Bahan, Grants Officer  
Office of Energy Efficiency and Renewable Energy  
U.S. Department of Energy  
Consolidated Business Center  
Lincolnshire Road  
Cincinnati, OH 45240

RE: Retrofit Ramp-Up Grant Program – City of Lowell, MA  
*Carbon-Neutral Lowell Park and Preservation District*

Dear Ms. Bahan:

It is our great pleasure to express our support for and partner with the City of Lowell's Division of Planning and Development (DPD) to implement a *Carbon-Neutral Lowell Park and Preservation District*. We are excited to participate in this initiative to substantially reduce energy consumption in Lowell's downtown preservation district through targeted interventions in building systems.

Lowell Community Health Center is dedicated to provide caring, quality, and culturally appropriate health services to the people of Greater Lowell, regardless of their financial status. Lowell Community Health Center is currently designing the adaptive reuse of an historic mill structure in downtown Lowell to expand community health services and create 100 employees. We would welcome the opportunity to have our project considered as a potential site for a zero net energy demonstration project within an historic property.

I strongly urge you to support the City of Lowell's request. As a growing entity, we look forward to working with DPD and the City's other partners to demonstrate how energy efficiency and sustainability can work in concert with our community's historic preservation goals, while simultaneously contributing to environmental protection and the revitalization of an economically distressed urban center.

The Health Center has identified Maura Smith as our point person on this partnership project with the City of Lowell. Should you have any questions or need any additional information from us, please do not hesitate to email her at [maurasm@lchealth.org](mailto:maurasm@lchealth.org) or by calling her at (978) 746-7891.

Sincerely,

Dorcas Grigg-Saito  
Chief Executive Officer



LOWELL DEVELOPMENT &  
FINANCIAL CORPORATION

December 10, 2009

Office of Energy Efficiency and Renewable Energy  
U.S. Department of Energy  
Attn: Karen Bahan, Grants Officer  
Department of Energy Environmental Management  
Consolidated Business Center  
Cincinnati, OH

RE: Retrofit Ramp Up Grant Program –  
City of Lowell, MA *Carbon-Neutral Lowell Park and Preservation District*

Dear Ms. Bahan:

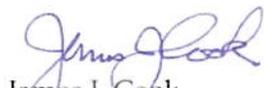
It is our great pleasure to express our support for and partner with the City of Lowell's Division of Planning and Development (DPD) to implement *A Carbon-Neutral Lowell Park and Preservation District*. We are excited to participate in this initiative to substantially reduce energy consumption in Lowell's downtown preservation district through targeted interventions in building systems.

The Lowell Development and Finance Corporation has been partnering with the City of Lowell and various commercial lenders to provide financing for real estate development, economic development, and revitalization projects in Lowell for over 30 years. The LDFC looks forward to supporting this project by making loans to developers and property owners interested in retrofitting their properties to achieve greater energy efficiency in their operations. The LDFC will also work with the City to seek additional funding to support the program should demand exceed the initial commitment proposed to be funded through the Retrofit Ramp-Up program.

We look forward to working with DPD and other partners to demonstrate how energy efficiency and sustainability can work in concert with historic preservation goals and contribute to the revitalization of a City as well as the protection of the environment.

I will be the point person on this project to partner with the City. Should you have any questions or seek additional information from us, please don't hesitate to contact me at 978-459-9899.

Sincerely,

  
James J. Cook  
Executive Director



IN REPLY REFER TO:

## United States Department of the Interior

NATIONAL PARK SERVICE  
Lowell National Historical Park  
67 Kirk Street  
Lowell, Massachusetts 01852-1029

December 7, 2009

Office of Energy Efficiency and Renewable Energy  
U.S. Department of Energy  
Attn: Karen Bahan, Grants Officer  
Department of Energy Environmental Management  
Consolidated Business Center  
Cincinnati, OH

RE: Retrofit Ramp Up Grant Program –  
City of Lowell, MA *Carbon-Neutral Lowell Park and Preservation District*

Dear Ms. Bahan:

It is our great pleasure to express our support for and partner with the City of Lowell's Division of Planning and Development (DPD) to implement *A Carbon Neutral Lowell Park and Preservation District*. We are excited to participate in this initiative to substantially reduce energy consumption in Lowell's downtown preservation district through targeted interventions in building systems.

The Lowell National Historical Park was founded more than 30 years ago on the principle that historic preservation could act as a vehicle for economic development. Today, the LNHP continues to believe our mission of protecting resources for future generations in broader than simply historic preservation. We welcome the opportunity to partner with the City of Lowell in implementing an energy efficiency and conservation retrofit program for the Park and Preservation District. The LNHP will provide technical assistance to property owners and energy auditors to ensure that proposed projects are consistent with the Secretary of the Interior's Standards for Historic Preservation.

We look forward to working with DPD and other partners to demonstrate how energy efficiency and sustainability can work in concert with historic preservation goals and contribute to the revitalization of a City as well as the protection of the environment.

We have identified our Facilities Chief Ted Davis as our point person on this project to partner with the City. He can be reached at 978-275-1721 or [ted\\_davis@nps.gov](mailto:ted_davis@nps.gov). Should you have any questions, please don't hesitate to contact me at 978-275-1722 or [peter\\_aucella@nps.gov](mailto:peter_aucella@nps.gov).

Sincerely,



Peter J. Aucella  
Acting Superintendent



## LOWELL HISTORIC BOARD

City of Lowell · J.F.K. Civic Center  
Fifty Arcand Drive · Lowell, Massachusetts 01852  
phone (978) 970-4270 · fax (978) 970-4262

[www.historiclowell.net](http://www.historiclowell.net)



December 9, 2009

Office of Energy Efficiency and Renewable Energy  
U.S. Department of Energy  
Attn: Karen Bahan, Grants Officer  
Department of Energy Environmental Management  
Consolidated Business Center  
Cincinnati, OH

REFERENCE: Retrofit Ramp Up Grant Program –  
City of Lowell, MA *Carbon-Neutral Lowell Park and Preservation District*

Dear Ms. Bahan:

On behalf of the Lowell Historic Board, I would like to express my strong support for, and partner with, the City of Lowell's Division of Planning and Development (DPD) to implement *A Carbon-Neutral Lowell Park and Preservation District*. We are excited to participate in this initiative to substantially reduce energy consumption in Lowell's downtown preservation district through targeted interventions in building systems and feel that it could become a model for other historic communities nationwide.

The Lowell Historic Board is the City's historic preservation agency and has been a pioneer in utilizing historic preservation as a tool for economic development since 1983. The Board welcomes the opportunity to help demonstrate how energy efficiency can be implemented in historic buildings while preserving their unique historic attributes, goals that do not have to be mutually exclusive. In addition, we will provide technical assistance to property owners participating in this program to help ensure that both preservation and sustainability interests are protected in these projects.

We look forward to working with DPD and other partners to demonstrate how energy efficiency and sustainability can work in concert with historic preservation goals and contribute to the revitalization of a city as well as the protection of the environment. The Board recently reviewed and approved the rehabilitation of an historic 1880s industrial building to LEED Gold standards and is excited to further demonstrate how historic preservation, energy efficiency, and sustainability can work together.

I will serve as the Board's point person on this project to partner with the City. Should you have any questions or require additional information, please do not hesitate to contact me at (978) 446-7200 x1443. The Lowell Historic Board enthusiastically supports the funding of the City's grant application and hopes you will look favorably upon their request.

Sincerely,

Stephen R. Stowell  
Administrator

December 10, 2009

Office of Energy Efficiency and Renewable Energy  
U.S. Department of Energy  
Attn: Karen Bahan, Grants Officer  
Department of Energy Environmental Management  
Consolidated Business Center  
Cincinnati, OH

RE: Retrofit Ramp Up Grant Program –  
City of Lowell, MA *Carbon-Neutral Lowell Park and Preservation District*

Dear Ms. Bahan:

It is our great pleasure to express our support for and partner with the City of Lowell's Division of Planning and Development (DPD) to implement *A Carbon-Neutral Lowell Park and Preservation District*. We are excited to participate in this initiative to substantially reduce energy consumption in Lowell's downtown preservation district through targeted interventions in building systems.

National Grid is the primary electric and gas utility serving the City of Lowell and has been a leader in promoting energy efficiency retrofits through rebate programs for several years. National Grid welcomes the opportunity to support this project by prioritizing the project area for our energy audit program and maximizing the application of available rebate programs for buildings in this area.

We look forward to working with DPD and other partners to demonstrate how energy efficiency and sustainability can work in concert with historic preservation goals and contribute to the revitalization of a City as well as the protection of the environment.

We have identified Ellen Pfeiffer as our point person on this project to partner with the City. Should you have any questions or seek additional information from us, please don't hesitate to contact Ellen at 781-907-1588.

Sincerely,



Mark Siegal  
Manager, Energy Efficiency Implementation



# Northern Middlesex Council of Governments

December 11, 2009

A Multi-Disciplinary  
Regional Planning  
Agency Serving:

Billerica  
Chelmsford  
Dracut  
Dunstable  
Lowell  
Pepperell  
Tewksbury  
Tyngsborough  
Westford

Office of Energy Efficiency and Renewable Energy  
U.S. Department of Energy  
Attn: Karen Bahan, Grants Officer  
Department of Energy Environmental Management  
Consolidated Business Center  
Cincinnati, OH

RE: Retrofit Ramp Up Grant Program –  
City of Lowell, MA *Carbon-Neutral Lowell Park and Preservation District*

Dear Ms. Bahan:

It is our great pleasure to express our support for and partner with the City of Lowell's Division of Planning and Development (DPD) to implement *A Carbon-Neutral Lowell Park and Preservation District*. We are excited to participate in this initiative to substantially reduce energy consumption in Lowell's downtown preservation district through targeted interventions in building systems.

We look forward to working with DPD and other partners to demonstrate how energy efficiency and sustainability can work in concert with historic preservation goals and contribute to the revitalization of a City as well as the protection of the environment. This would be a tremendously important project for the Northern Middlesex region of Massachusetts and could serve as a model for the other post-industrial cities in the district and throughout the country.

---

James G. Silva  
Chair

---

Beverly A. Woods  
Executive Director

---

40 Church Street, Suite 200  
Lowell, MA  
01852-2686

TEL: (978) 454.8021

FAX: (978) 454-8023

www.nmcog.org

Sincerely,

Beverly Woods  
Executive Director

# PIPEFITTERS' ASSOCIATION

ASSISTANT BUSINESS MANAGER  
DAVID SAVIANO

BUSINESS AGENTS  
PAUL R. CAMPBELL  
LEO J. FAHEY

REFRIGERATION DIVISION  
THOMAS P. KERR, JR.

*Local Union 537*

35 TRAVIS STREET  
ALLSTON, MASSACHUSETTS 02134  
Telephone 617-787-5370 • Fax 617-787-5373

BUSINESS MANAGER / FINANCIAL SECRETARY TREASURER  
C. DANIEL WATTS

PRESIDENT  
SEAN TOLLAND

VICE PRESIDENT  
THOMAS P. McGRATH

ORGANIZER  
WILLIAM C. YOUNG, JR.

December 9, 2009

Office of Energy Efficiency and Renewable Energy  
U.S. Department of Energy  
Attn: Karen Bahan, Grants Officer  
Department of Energy Environmental Management  
Consolidated Business Center  
Cincinnati, OH

RE: Retrofit Ramp Up Grant Program –  
City of Lowell, MA *Carbon-Neutral Lowell Park and Preservation District*

Dear Ms. Bahan:

It is our great pleasure to express our support for and partner with the City of Lowell's Division of Planning and Development (DPD) to implement *A Carbon-Neutral Lowell Park and Preservation District*. We are excited to participate in this initiative to substantially reduce energy consumption in Lowell's downtown preservation district through targeted interventions in building systems.

We look forward to working with DPD and other partners to demonstrate how energy efficiency and sustainability can work in concert with historic preservation goals and contribute to the revitalization of a City as well as the protection of the environment.

We have identified Local 537 signatory contractors Honeywell International, Siemens Building Technologies, Johnson Controls and Trane Company as partners with the City. All of these companies have extensive experience in energy conservation projects throughout the United States and have offices in Massachusetts.

Should you have any questions or seek additional information from us, please don't hesitate to contact me at 617-787-5370 x 228 or [campbell@pipefitters537.com](mailto:campbell@pipefitters537.com)

Sincerely,



Paul R. Campbell  
Business Agent

# PLUMBERS & GASFITTERS LOCAL 12 BOSTON



United Association of Journeymen and Apprentices of the Plumbing and  
Pipe Fitting Industry of the United States and Canada  
Affiliated with the A. F. of L. and C. I. O.



HJB

1240 MASSACHUSETTS AVENUE, BOSTON, MA 02125  
TEL. (617) 288-6200

December 11, 2009

Office of Energy Efficiency and Renewable Energy  
U.S. Department of Energy  
Attn: Karen Bahan, Grants Officer  
Department of Energy Environmental Management  
Consolidated Business Center  
Cincinnati, OH

RE: Retrofit Ramp Up Grant Program –  
City of Lowell, MA *Carbon-Neutral Lowell Park and Preservation District*

Dear Ms. Bahan:

It is our great pleasure to express our support for and partner with the City of Lowell's Division of Planning and Development (DPD) to implement *A Carbon-Neutral Lowell Park and Preservation District*. We are excited to participate in this initiative to substantially reduce energy consumption in Lowell's downtown preservation district through targeted interventions in building systems.

We look forward to working with DPD and other partners to demonstrate how energy efficiency and sustainability can work in concert with historic preservation goals and contribute to the revitalization of a City as well as the protection of the environment.

Business Agent Tim Fandel will be our point person on this project to partner with the City. Should you have any questions or seek additional information from us, please don't hesitate to contact Tim at 617-288-6200 ext 140.

Sincerely,

Kevin L Cotter  
Business Manager

KEVIN L. COTTER  
BUSINESS MANAGER  
SECRETARY-TREASURER

HARRY J. BRETT  
BUSINESS AGENT

GEORGE B. DONAHUE  
BUSINESS AGENT

TIMOTHY G. FANDEL  
BUSINESS AGENT



## United Teen Equality Center

---

December 3, 2009

Karen Bahan, Grants Officer  
Office of Energy Efficiency and Renewable Energy  
U.S. Department of Energy  
Department of Energy Environmental Management  
Cincinnati, OH

Dear Ms. Bahan:

The United Teen Equality Center (UTEC) is pleased to support and partner with the City of Lowell's Division of Planning and Development (DPD) to implement *A Carbon-Neutral Lowell Park and Preservation District*. UTEC is excited to participate in this initiative to substantially reduce energy consumption in Lowell's downtown preservation district through targeted interventions in building systems.

UTEC is a youth development agency, annually serving nearly 2,000 Lowell young people through a unique combination of a drop-in/safe haven space and workforce development and educational programming. UTEC purchased its historic former church building in 2006 with the goal of renovating the space into an energy efficient structure that also optimizes use of program space. This high performance, renovated and enlarged space will allow UTEC's new building to serve as a community education center for green design--fully open to the community--while also increasing UTEC's ability to serve more youth.

Our unique approach for energy efficiency involves utilizing basic rules of physics as well as some more innovative mechanical systems to reduce our reliance on fossil fuels. UTEC's building follows an integrated approach of building envelope optimization, advanced passive strategies, mechanical and electric systems' optimization and renewable energy systems' optimization. Our project is projecting a **68% reduction in energy** used and meets the **LEED Platinum** criteria. This renovated building and expansion, as well as the important inclusion of the Green Resource Center, will provide a road map to the greater community and Merrimack Valley.

UTEC's project highlights a unique integration of historic reuse with high energy performance and community education, while also having significant economic impact through the provision of 100-120 construction-related jobs and 20 new full-time positions within UTEC. This duality is wholly consistent with DPD's vision for a carbon-neutral park and recreation district, and UTEC hopes to serve as a demonstration project to advance the work of this larger proposal. UTEC looks forward to working with DPD and other partners to demonstrate how energy efficiency and sustainability can work in concert with historic preservation goals and contribute to the revitalization of a City as well as the protection of the environment.

Please feel free to contact me should you have any questions or need additional information from us. I can be reached at [gregg@utec-lowell.org](mailto:gregg@utec-lowell.org) or by phone at 978-856-3990.

Sincerely,

Gregg Croteau  
Executive Director



# WinnDevelopment

December 8, 2009

Office of Energy Efficiency and Renewable Energy  
U.S. Department of Energy  
Attn: Karen Bahan, Grants Officer  
Department of Energy Environmental Management  
Consolidated Business Center  
Cincinnati, OH

RE: Retrofit Ramp Up Grant Program –  
City of Lowell, MA *Carbon-Neutral Lowell Park and Preservation District*

Dear Ms. Bahan:

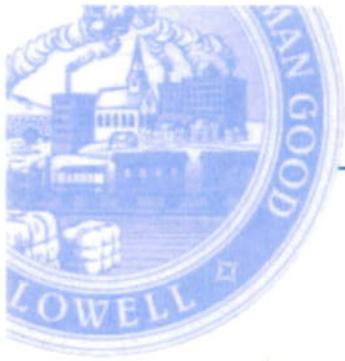
WinnDevelopment is a leader in renovating historic mills and creating quality affordable housing. Boston based, Winn affiliates manage over 70,000 apartment homes in 20 States. Over the past few years, Winn has also become a leader in the field of green building renovation, prioritizing energy efficiency and sustainability in both new and existing properties. Since 2007, Winn has executed energy and water conservation improvements that have saved over 2,000,000 kWh of electricity, 78,000 therms of gas, and 85,000,000 gallons of water. In addition to insulation, air sealing, HVAC and lighting upgrades, Winn installed over 1 Megawatt of photovoltaic in 2008, which is one of the largest installations on affordable housing portfolio in the US.

It is our great pleasure to express our support for and partner with the City of Lowell's Division of Planning and Development (DPD) to implement *A Carbon-Neutral Lowell Park and Preservation District*. We are excited to participate in this initiative to substantially reduce energy consumption in Lowell's downtown preservation district through targeted interventions in building systems.

We look forward to working with DPD and other partners to demonstrate how energy efficiency and sustainability can work in concert with historic preservation goals and contribute to the revitalization of a City as well as the protection of the environment. More significantly, we would welcome the opportunity for our properties Jackson Square LP (Loft 27) and East Mills LP (The Apartments at Boott Mills) to be participants in and beneficiaries of this program.

Sincerely,

Lawrence Curtis  
President, WinnDevelopment



Bernard F. Lynch  
City Manager

December 9, 2009

Office of Energy Efficiency and Renewable Energy  
U.S. Department of Energy  
Attn: Karen Bahan, Grants Officer  
Department of Energy Environmental Management  
Consolidated Business Center  
Cincinnati, OH

RE: City of Lowell, MA EECBG-Funded Retrofit Ramp-Up Program

Dear Ms. Bahan:

Please accept this letter as authorization to allow the Northern Middlesex Council of Governments to submit the City of Lowell's application on our behalf. We are working in close partnership with them on this project application. The City of Lowell, Massachusetts is seeking approximately \$10 million in funding to support an initiative to create a *Carbon-Neutral Lowell Park and Preservation District* within the boundaries of the Lowell National Historical Park and Downtown Lowell. This project will be managed by the City of Lowell Division of Planning and Development under the direction of Assistant City Manager/DPD Director Adam Baacke.

Should you have any questions about this proposal, please do not hesitate to contact Adam Baacke or Associate Planner Aaron Clausen at 978-446-7200.

Sincerely,

Bernard F. Lynch  
City Manager

cc: Adam Baacke, Assistant City Manager/DPD Director  
Aaron Clausen, Associate Planner  
NMCOG