

U.S. Department of Energy  
**ENERGY EFFICIENCY AND CONSERVATION BLOCK GRANT (EECBG)**  
**QUARTERLY PERFORMANCE REPORT**

Grant Number: EE0001969

Grantee Name: CITY OF MARTINEZ, CA

Reporting Period: 07/01/2011 - 09/30/2011

Report Status: Approved

Grant Complete and ready for Close out: 

Activity Title: LED Street Light Technology Upgrades - Main Street

Activity: 12. Lighting

Activity Status:	Completed	% of Work Complete:	100
Planned Start Date:	01/19/2011	Planned End Date:	06/30/2011
Actual Start Date:	01/19/2011	Actual End Date:	08/31/2011
Proposed Activity Budget:	\$157,131.90	Planned Outlays For this Period:	\$0.00

## Description:

Downtown Martinez has 114 decorative streetlights along Main Street and numerous other streets throughout the downtown area in need of upgrade to energy-efficient LED technology. Each post top fixture currently in place is a 150-watt High Pressure Sodium light. The project has been expanded from 73 LED's to 114 due to a combination of additional funding being secured for the Marina Vista LED Project through another agency (City of Concord, CA), and a highly favorable quote received from the City's lowest responsible bidder. The estimated budget for this project is now all of the \$150,800 EECBG grant funding to retrofit the bulbs with 75-watt LED's and secure suitable post-top fixtures. The City submitted a purchase order on March 30, 2011 in the amount of \$146,657.58 for the LED's. City labor will be used for the installations on the effort at an estimated cost of \$10,474.32. As a result, the full \$150,800 EECBG grant will be expended through this project and any labor costs above the grant amount, currently estimated to be \$6,331.90, will be absorbed by the City to complete the project. Equipment was received on July 11, 2011. Installation of equipment expected to take several weeks to complete due to staffing limitations of the City and the complexity of the installs. Project is now expected to be completed by September 30, 2011.

### ACTIVITY MILESTONES

Planned Start	Planned Completion	Planned Amount	Actual Start	Actual Completion	Previously Reported	Actual Amount This Qtr	Actual Amount Cumulative To Date	Status
Latest projection based on release of RFQ on 10/12/10 and award of contract on 11/3/10. Consideration of project expansion factored into updated planned amount (73 streetlight LED retrofits vs. original estimate of 33).								
11/03/2010	01/31/2011	120,000	01/19/2011		0	0	0	Delayed
Due to favorable bids opened on January 5, 2011, funds were sufficient to expand project to encompass 115 decorative LED light fixtures to upgrade streetlights in the downtown area. Contract awarded to King Luminaire at the January 19, 2011 Council Meeting. Purchase order to be issued in early February 2011; projected drawdown of DOE EECBG grant funds from ASAP.GOV April 2011.								
01/19/2011	04/30/2011	132,720	01/19/2011		0	0	0	On-Time
The City Council awarded a contract to King Luminaire on January 19, 2011, for procurement of the LED's and fixtures needed to upgrade 114 (number confirmed) downtown streetlights. Engineering staff worked during the quarter to confirm the mounting size on all poles and fixture size for all lights; ensure the lighting levels were appropriate; and guarantee the LED's would qualify for PG&E's LS-2 utility rate and applicable rebates. The City issued a purchase order on March 30, 2011, to King Luminaire's authorized distributor in the amount of \$146,657.58. Labor costs expected to push the project budget beyond the \$150,800 EECBG grant to a total of \$157,132. Project scheduled for completion by June 30, 2011.								
01/19/2011	06/30/2011	157,132	01/19/2011		0	0	0	On-Time

U.S. Department of Energy  
**ENERGY EFFICIENCY AND CONSERVATION BLOCK GRANT (EECBG)  
 QUARTERLY PERFORMANCE REPORT**

Grant Number: EE0001969

Grantee Name: CITY OF MARTINEZ, CA

Reporting Period: 07/01/2011 - 09/30/2011

Report Status: Approved

Grant Complete and ready for Close out: 

Activity Title: LED Street Light Technology Upgrades - Main Street - continued -

Activity: 12. Lighting

### ACTIVITY MILESTONES

Planned Start	Planned Completion	Planned Amount	Actual Start	Actual Completion	Previously Reported	Actual Amount This Qtr	Actual Amount Cumulative To Date	Status
<p>The City Council awarded a contract to King Luminaire on January 19, 2011, for procurement of the LED's and fixtures needed to upgrade 114 (number confirmed) downtown streetlights. Engineering staff worked during the quarter to confirm the mounting size on all poles and fixture size for all lights; ensure the lighting levels were appropriate; and guarantee the LED's would qualify for PG&amp;E's LS-2 utility rate and applicable rebates. The City issued a purchase order on March 30, 2011, to King Luminaire's authorized distributor in the amount of \$146,657.58. The LED's were received on July 11, 2011 and trial installation of the lights is underway to determine actual time and manpower required. Labor costs expected to push the project budget beyond the \$150,800 EECBG grant to a total of \$157,132. Project scheduled for completion by September 30, 2011.</p>								
01/19/2011	09/30/2011	157,132	01/19/2011		0	0	0	On-Time
<p>City Council awarded a contract to King Luminaire on January 19, 2011, for procurement of LED's and fixtures needed to upgrade 114 downtown streetlights. City issued a purchase order on March 30, 2011, to King Luminaire's authorized distributor in the amount of \$146,657.58. LED's were received by City on July 11, 2011. City labor performed installs in July and August 2011, at a total cost of \$8,951.64 to complete the job. The City had remaining grant funding of \$4,142.42 to charge against the labor costs. Completing the project required leveraging of \$4,809.22 in City labor costs above the grant amount.</p>								
01/19/2011	09/30/2011	157,132	01/19/2011	08/31/2011		155,609	155,609	Ahead

### REQUIRED METRICS

Financial Metrics			
Use Of Funds	Previously Reported	This Quarter Outlays	Total Cumulative To Date
<b>EECBG Activity Outlays</b>			
<b>Recipient</b>			
<b>Direct Activity</b>	\$0.00	\$150,800.00	\$150,800.00
	We used all of our allotted EECBG grant funding of \$150,800. We paid King Luminaire Co. \$146,657.58 via check #38756 on July 14, 2011, and charged the remainder of \$4,142.42 for City labor to install.		
<b>Total:</b>	<b>\$0.00</b>	<b>\$150,800.00</b>	<b>\$150,800.00</b>
<b>Total Outlays:</b>	<b>\$0.00</b>	<b>\$150,800.00</b>	<b>\$150,800.00</b>

U.S. Department of Energy  
**ENERGY EFFICIENCY AND CONSERVATION BLOCK GRANT (EECBG)**  
**QUARTERLY PERFORMANCE REPORT**

Grant Number: EE0001969

Grantee Name: CITY OF MARTINEZ, CA

Reporting Period: 07/01/2011 - 09/30/2011

Report Status: Approved

Grant Complete and ready for Close out: 

Activity Title: LED Street Light Technology Upgrades - Main Street - continued -

Activity: 12. Lighting

### REQUIRED METRICS

#### Financial Metrics

Metric Description	Group	Metric Item	Previously Reported	This Quarter	Cumulative To Date
<b>Leveraged Funds</b>					
Percentage of Leveraged Funds		Percentage of Leveraged Funds Applied (%)	0	3	3

#### Process Metrics

Metric Description	Group	Metric Item	Previously Reported	This Quarter	Cumulative To Date
<b>Transportation</b>					
Energy-efficient streetlights installed		Streetlights installed (count)	0	114	114

### QUALITATIVE DESCRIPTIONS

**Infrastructure Investment Rationale**
 **Is Infrastructure Investment**

The downtown Martinez LED streetlight upgrade project serves the purpose of investing in transportation (streetlights), environmental protection, and other infrastructure that will provide long-term economic benefits. The LED's are a much better ecological option as they contain no mercury, lead or other known disposable hazards; offer a reduced environmental footprint; and use 40%-50% less energy. From this project, we estimate annual utility savings of \$4,400 and annual maintenance savings of \$11,400, for a total estimated annual savings of \$15,800. We also project savings of 31,207.5 Kwh per year, and savings of 17,445 lbs of co2 per year.

**What we planned to accomplish this period**

Wereceived the LED's and related fixtures in July 2011 and began the process of installing lights on a trial basis to determine the necessary time and manpower requirements. Some of our downtown streetlights were configured differently, making the installations more challenging. City public works crews made this project and priority and worked efficiently to complete this project by the end of August 2011.

**Are you following the Plan? If not, describe the change in approach, and reasons for the change.**

Yes, we finished by the end of August 2011 which was the ideal target once we had received the LED lighting and fixtures in July 2011.

U.S. Department of Energy  
**ENERGY EFFICIENCY AND CONSERVATION BLOCK GRANT (EECBG)**  
**QUARTERLY PERFORMANCE REPORT**

Grant Number: EE0001969

Grantee Name: CITY OF MARTINEZ, CA

Reporting Period: 07/01/2011 - 09/30/2011

Report Status: Approved

Grant Complete and ready for Close out: 

Activity Title: LED Street Light Technology Upgrades - Main Street - continued -

Activity: 12. Lighting

### QUALITATIVE DESCRIPTIONS

#### Major Activities, Significant Results, Major Findings, and Key Outcomes

Utilizing existing City public works crews, we completed the removal and replacement of lights and fixtures for 114 decorative streetlights in our downtown area. Maintenance crews utilized lift units to remove the old high pressure sodium light heads, and another crew installed the replacement LED units. During the installation process, no parking signs were placed throughout the right of way to allow the work to proceed without unnecessary delays as the project progressed from block to block throughout the downtown. We made this project a high priority and are very pleased with the results. We have received a number of compliments from citizens, visitors, and elected officials for the new installations.

#### Actual or Anticipated Problems or Delays and Corrective Action Plan

After the 114 LED lights and fixtures were received in July 2011, the City's public works crews spent adequate time testing and evaluating a few trial streetlights for removal and replacement to determine the best way to install the new LED's. Once the crews figured out the most efficient method of removing the old High Pressure Sodium lights and fixtures, and securely replacing them with the LED lights and post top fixtures, the entire process went very smoothly and all lights were done by the end of August 2011.

#### Products Produced or Technology Transfer Activities Accomplished During the Reporting Period

We replaced 114 of our 150 Watt High Pressure Sodium lights in our decorative downtown streetlights with 75 Watt LED's. We estimate a combined utility and maintenance savings of \$15,800 per year from this project, all while saving 31,207.5 Kwh and 17,445 lbs of co2 each year. This was a very positive project that will provide lasting economic and ecological benefits for many years to come.

#### Lessons Learned

The process of finding suppliers that met the stringent Buy America standards was extremely frustrating and challenging. Hopefully, more mainstream suppliers will be able to accommodate the growing demand. Working with PG&E, our local utility, to determine whether the lights our engineers deemed suitable for our downtown qualified for the lower utility savings rate AND the special rebate per light was time-consuming and often confusing. Fortunately, we were able to receive assurance from them that the lights we chose qualified for both.

#### What we expect to accomplish during the next period

Grant is closed out, project complete.

#### Remarks

Thank you for providing the funding support necessary for the City of Martinez to initiate and complete this installation. We hope this project will lead to other LED conversions throughout our City, and we plan to apply for additional grant funding in the future for similar projects if eligible.

U.S. Department of Energy  
**ENERGY EFFICIENCY AND CONSERVATION BLOCK GRANT (EECBG)**  
**QUARTERLY PERFORMANCE REPORT**

Grant Number: EE0001969

Grantee Name: CITY OF MARTINEZ, CA

Reporting Period: 07/01/2011 - 09/30/2011

Report Status: Approved

Grant Complete and ready for Close out: 

**APPROVAL HISTORY**

Action	Date	By Whom
Approved	10/24/2011 10:14:17 am	David Hathcock 7022952285 david_hathcock@nv.gov.gov
	<b>Comments:</b> Michael the close out package will be forthcoming in a few weeks. Thanks	
Submitted	10/20/2011 08:36:12 pm	Michael Chandler 9253723517 mchandler@cityofmartinez.org
	<b>Comments:</b>	