

RESOLUTION NO. 2051

A RESOLUTION OF THE COUNCIL OF THE CITY OF SALISBURY, MARYLAND ACCEPTING A MARYLAND CLEAN ENERGY CENTER GRANT AUTHORIZED BY THE STATE OF MARYLAND FOR THE REPLACEMENT OF 69 TRADITIONAL LIGHT FIXTURES AT THE SALISBURY FIRE DEPARTMENT STATION #2 LOCATED ON BROWN STREET TO ENHANCE THE ENERGY EFFICIENCY OF THE STRUCTURE AND, TO IMPROVE THE SAFETY FOR ALL THE CITIZENS OF THE CITY OF SALISBURY AND THE SALISBURY FIRE DISTRICT WHO USE THE FACILITY.

WHEREAS, the members of the City of Salisbury Fire Department seek to enhance the department's energy efficiency and safe use of the fire station; and,

WHEREAS, funds appropriated from the Maryland Clean Energy Center have been offered for the replacement of sixty-nine (69) traditional lighting fixtures to be provided to the City of Salisbury for installation into Brown Street fire station #2; and,

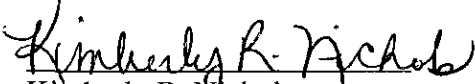
WHEREAS, both the Fire Chief and the Mayor have recommended that the City accept the grant funds for the replacement of the lighting fixtures; and,

WHEREAS, the City's gift policy requires that such gifts can only be accepted with the approval of City Council,

NOW, THEREFORE BE IT RESOLVED that the City of Salisbury accepts this grant for the replacement of sixty-nine (69) traditional lighting fixtures and is grateful for the grant award for the replacement of sixty-nine (69) traditional lighting fixtures that enables the Salisbury Fire Department to further enhance its energy efficiency and safe operation of its delivery of fire, rescue and emergency medical services from this facility to the citizens of the City and the Salisbury Fire District.

THE ABOVE RESOLUTION was introduced and duly passed at a meeting of the Council of the City of Salisbury, Maryland held on May 9, 2011, and is to become effective immediately upon adoption.


ATTEST:

  
Kimberly R. Nichols  
ASSISTANT CITY CLERK

  
Terry Cohen  
PRESIDENT, CITY COUNCIL

Approved by me this

13<sup>th</sup> day of May, 2011.

  
James Yreton, Jr.  
MAYOR, CITY OF SALISBURY



*From the Office  
of the Chief*

**To:** Mr. John Pick, City Administrator

**Date:** 27 April 2011

**From:** Jeff Simpson, Chief of the Department

**Subject:** Grant Acceptance Item (Clean Energy Lighting)

We have been notified by Governor Martin O'Malley and the Maryland Clean Energy Center (MCEC) that the Salisbury Fire Department has been awarded grant funding in the amount of \$24,812.00. The award does not require a monetary match by the department so no funds associated with the city budget are necessary to complete the acceptance.

The specific funding is designated for the replacement of 69 traditional lighting fixtures at Salisbury Fire Station #2 with energy-efficient lighting and long-lasting CFL bulbs. The new lighting is expected to save significant money in energy and maintenance costs each year. In addition, the improved lighting will contribute to the all around safety of all who use the facility.

SFD would like to move forward with the acceptance and requests that the grant award be added for city council approval at the next available session.

Thank you in advance for your time and attention regarding this request.

cc:

File

JAMES IRETON, JR.  
MAYOR

JOHN R. PICK  
CITY ADMINISTRATOR

LORÉ L. CHAMBERS  
ASSISTANT CITY ADMINISTRATOR

JEFF SIMPSON  
FIRE CHIEF

# City of Salisbury



MARYLAND

125 NORTH DIVISION STREET  
SALISBURY, MARYLAND 21801  
Tel: 410-548-3100  
Fax: 410-548-3102



February 11, 2011

To: D. Parrish

From: Salisbury, Maryland Fire Department

Re: MCEC Local Funding Assistance Grant Proposal

Dear Md. Clean Energy Center,

We would like to submit a grant proposal for consideration to advance our energy efficiency in a currently operating 1930's era fire station. The current interior incandescent lighting is over 20 years old and is in extremely poor condition. A large portion of the building does not meet code for minimum lighting and lacks adequate emergency egress lighting. The installation of new low energy T8 Florescent Lamps would not only save energy but would improve the safety of the occupants. The scope of the project includes the replacement of sixty-nine (69) current light fixtures with compact fluorescent lamps (CFLs) and four (4) supporting cord reels in the ceiling area of the structure. Scope estimate includes the labor and hardware for the removal of the existing fixtures and their disposal, and the installation and testing of the new fixtures. Below is a project plan deliverables and a few estimates on the savings that could be generated if we were awarded a energy grant that improves our efficiency.

Current Yearly Kbtu/year = 850,154  
Current Yearly USD/year = 23,333  
Carbon Footprint CO2/year = 59

Projected Yearly Kbtu/year = 688,540  
Projected Yearly USD/year = 17,156  
Projected Footprint CO2/year = 48

Savings Yearly Kbtu/year = 161,614  
Savings Yearly USD/year = 6,177  
Savings Footprint CO2/year = 11

JAMES IRFTON, JR.  
MAYOR

JOHN R. PICK  
CITY ADMINISTRATOR

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Tel: 410-548-3100  
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Grant Funding Budget Request = \$24,812 with a 4.0 year Return on Investment

Funding breakout can be segregated into hardware (fixtures) and installation (labor) for project accounting. Upon receipt of funding sources, project completion is anticipated to be within 45 days after award of contract bid.

Milestones will be generated based on the completion of phase 1 (living area) and phase 2 (engine bay). Feedback will be provided once construction completion occurs for the removal of the old fixtures and final test of the newly installed fixtures for each phase.

Permitting is according to adopted City Code. Reporting certification will be within compliance as written and in comparison with other ARRA reporting mechanisms being handled by the City currently.

Commercial Availability and Technology is of common industry practice and accepted in the business transaction space as the Best Known Method (BKM) for the form, fit and function of the project design.

Risks include any unforeseen electrical wiring or structural limitations that may be encountered. Initial project assessment indicates little to no risk in this category exists. (See attached structural drawings)

Thank you for the consideration and please do not hesitate if the department can provide further insight or clarification.

Jeff Simpson

Chief of the Department





# Energy Balance Evaluation

## Key Values

Project Name: Station 2 Repairs  
 Project Location: Salisbury, MD  
 Activity Type: Multiple  
 Evaluation Date: 2/4/2011 2:46:PM

Tempered floor area: **9919.63** sq ft  
 Ventilated volume: **103098.24** cu ft  
 Outer heat capacity: - Btu/sq ft,F

## Calculated thermal resistances:

R values [sq ft,F,hr/Btu]  
 Building shell average: **6.41**  
 Roofs: **11.36 - 11.36**  
 External walls: **5.68 - 4.54**  
 Basement walls: **4.54 - 4.54**  
 Openings: **4.37 - 4.37**

## Energy Consumption

Source	Yearly total		Yearly specific	
	kBtu/year	USD/year	kBtu/sq ft,year	USD/sq ft,year
17.6% Natural gas	149370	1752	15.06	0.18
82.4% Electricity	700783	21581	70.67	2.18
<b>Total:</b>	<b>850154</b>	<b>23333</b>	<b>85.74</b>	<b>2.35</b>



**850154** kBtu  
**85.74** kBtu/sq ft

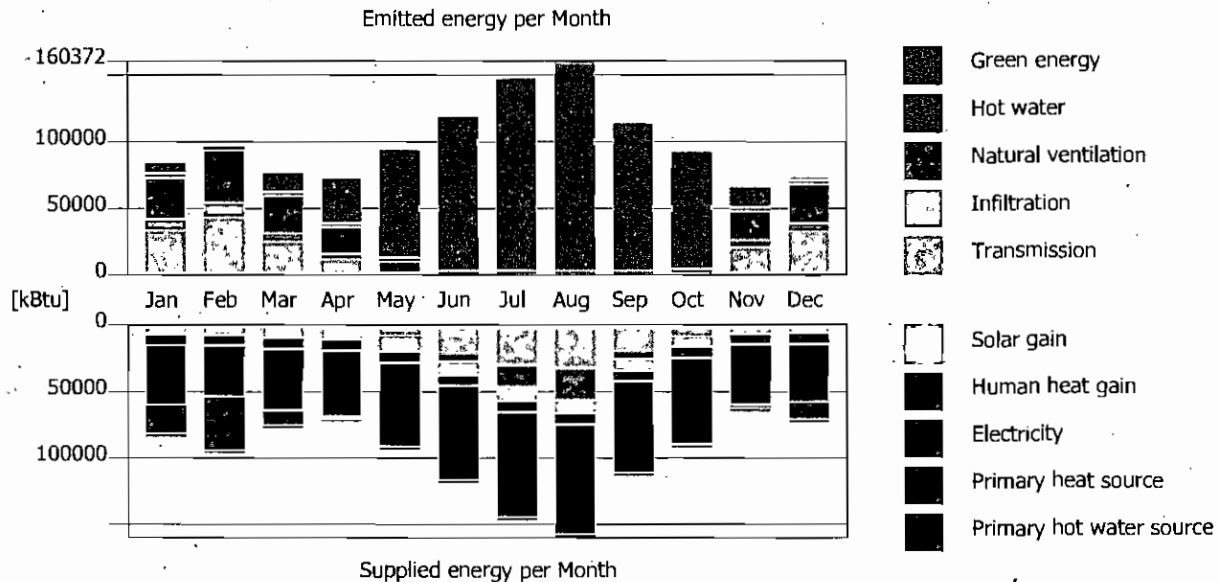
## Carbon Footprint

CO<sub>2</sub> emission as a result of operating this building is **59 tons CO<sub>2</sub>/year**

This amount of CO<sub>2</sub> is absorbed in one year by 0.7 acres (roughly equivalent to 10 tennis-courts) of tropical forest.



## Monthly Energy Balance





# Energy Balance Evaluation

## Key Values

Project Name: Station 2 Repairs  
 Project Location: Salisbury, MD  
 Activity Type: Multiple  
 Evaluation Date: 2/4/2011 2:47 PM

Tempered floor area: **9919.63** sq ft  
 Ventilated volume: **103098.24** cu ft  
 Outer heat capacity: - Btu/sq ft,F

## Calculated thermal resistances:

R values [sq ft,F,hr/Btu]  
 Building shell average: **6.41**  
 Roofs: **11.36 - 11.36**  
 External walls: **5.68 - 4.54**  
 Basement walls: **4.54 - 4.54**  
 Openings: **4.37 - 4.37**

## Energy Consumption

Source	Yearly total		Yearly specific	
	kBtu/year	USD/year	kBtu/sq ft,year	USD/sq ft,year
30.8% Natural gas	212327	2491	21.41	0.25
69.2% Electricity	476213	14665	48.02	1.48
<b>Total:</b>	<b>688540</b>	<b>17156</b>	<b>69.44</b>	<b>1.73</b>



**688540** kBtu  
**69.44** kBtu/sq ft

## Carbon Footprint

CO<sub>2</sub> emission as a result of operating this building is **48 tons CO<sub>2</sub>/year**

This amount of CO<sub>2</sub> is absorbed in one year by 0.5 acres (roughly equivalent to 8 tennis-courts) of tropical forest.



## Monthly Energy Balance

