

SC Budget and Control Board
SOUTH CAROLINA ENERGY OFFICE

Solicitation SCEO-01 (Energy Efficiency Funding for Public School Districts, Public Colleges and Universities, and State Agencies)

PROJECT APPLICATION: PART A

I. APPLICANT INFORMATION

A. Applicant's Legal Name: South Carolina Department of Motor Vehicles
B. Mailing Address (Street, City, & State): P.O. Box 1498, Blythewood, SC

Required: 9-digit zip code 29016-9018 County: Richland
(9-digit zip code can be found at <http://zip4.usps.com/zip4/welcome.jsp>)

C. Contact Person: Wendy Gaskins

Title: Facilities Administrator

D. Telephone: 803 - 896-9891

Fax: 803 - 896-3855

E. Email Address: wendy.gaskins@scdmv.net

F. Type of Institution: (mark one)

Public School District
 Public College or University
 State Agency

G. Project Title: SCDMV Field Office Lighting Upgrade Project
(This should be a brief descriptive title that will identify your project within our system)

II. AUTHORIZED SIGNATURE

I hereby state that all the information provided herein is true and correct, that the proposed use of SEP ARRA funds does not supplant state and local funds already committed to the project, and that I have the legal authority to submit this application and receive funds if awarded.

Date 8/27/09
Marcia S. Adams
Signature of Authorized Official

Marcia S. Adams
Name (print)

Executive Director
Title (print)

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Marcia S. Adams
Name (print)

Executive Director
Title (print)

III. PROJECT DESCRIPTION

Give an overview of the project to be implemented. List each energy measure, including type and location.

A. Project Overview:

Project will consist of replacement of existing and outdated T-12 light fixtures in 37 SCDMV field office locations across the state to new energy efficient T-8 light fixtures and ballasts. Associated with these field office locations are eleven Highway Patrol offices which are a part of the South Carolina Department of Public Safety.

B. Energy Measure(s):

- 1.) *Install new T-8 linear fluorescent lamps and ballasts.*
- 2.)
- 3.)
- 4.)
- 5.)
- 6.)

The following forms must be completed:

Complete SCEO-01 Application, Part B, Individual Energy Measure Summary, for each Energy Measure listed. (Use a separate form for each measure.)

Complete SCEO-01 Application, Part C, Project Summary, for total project.

Use the following definitions of metrics to complete Parts B & C:

Annual Energy Savings: The projected reduction in energy use as a result of implementing an energy measure. It is calculated by converting the energy savings for each energy type to thousand British thermal units (kbtus). Below are conversion rates for some common units of measure to kbtus:

Energy Type	Unit of Measure	Multiply by this Amount to convert to kbtus
Electricity	KWH	3.412
Natural Gas	Therm	100
Propane	Gallon	92
Fuel Oil	Gallon	140 (average)

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Annual Cost Savings: Annual energy cost savings as a result of implementation of an energy measure. When appropriate, the Annual Cost Savings may also include the annual reduction in maintenance expenses and the savings from reallocation of personnel to other functions.

Life Cycle of Energy Measure: The planned duration of cost savings, taking into consideration the generally accepted life of materials installed and equipment placed in service, the remaining useful life of the building, and other pertinent factors.

Life Cycle Cost Savings: The Annual Cost Savings multiplied by the Lifecycle of the Energy Measure.

Energy Measure Cost: The estimated cost to implement the measure. This includes costs to be paid from all funding sources.

Energy Measure Funds Request: The amount of federal ARRA funds requested in this Application to implement the measure.

Simple Payback Period: For an Energy Measure, the Simple Payback Period is the Cost Savings divided by the Energy Measure Funds Request.

Return on Investment: For an Energy Measure, the Return on Investment is the Life Cycle Cost Savings divided by the Energy Measure Funds Request. The Total Project Return on Investment is the sum of Life Cycle Cost Savings for all Measures divided by the total Project Funds Request.

Project Annual Energy Savings: The sum of annual energy savings for all energy measures included in the Project.

Project Cost Savings: The sum of annual cost savings for all energy measures included in the Project.

Project Life Cycle Cost Savings: The sum of Life Cycle Cost Savings for all energy measures included in the Project.

Total Project Cost: The estimated cost to implement all energy measures included in the Project. The Total Project Cost includes costs to be paid from all funding sources.

Project Funds Request: The total amount of ARRA funds requested in this Application.

Simple Payback Period for Project: The Project Simple Payback Period is the Projected Annual Cost Savings for the Project divided by the Project Funds Request.

Return on Investment for Project: The Project Return on Investment is the Project Life Cycle Cost Savings divided by the Project Funds Request.

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PROJECT APPLICATION: PART B

INDIVIDUAL ENERGY MEASURE SUMMARY

Complete the Measure Benefits Table below for each energy measure listed in Part A, Section III.B of the this application. Discuss existing and proposed systems in detail. Attach a technical analysis for each energy measure.

Energy Measure #1: *Install new T-8 linear fluorescent lamps and ballasts*

Measure Benefits Table

ARRA Funds Requested	\$94,530.00
Projected Annual Energy Savings by Energy Type	8228.5 KWH
Projected Annual Cost Savings	\$26,059.69
Expected Lifetime of Equipment	20 years
Simple Payback Period - see technical analysis- Actual replacement cost/ Annual Cost Savings (\$150,400/26,059.69) (Funds Requested/Annual Cost Savings)	5.77
Projected Life Cycle Cost Savings for this Measure (Projected Annual Cost Savings x Expected Lifetime of Equipment)	\$521,180.00
Environmental Benefits	<ul style="list-style-type: none"> · use electricity as efficiently as is possible; · reduce the amount of pollution, particularly greenhouse gas emissions, caused by our energy consumption; · reduce, wherever possible, total energy load and watts reduction.
Other	

COST CATEGORY	PROJECTED COST
Direct Labor for Installation	Will contract work out. See Installation
Equipment and Materials	Will contract with labor. See Installation
Contracts:	
Project Design-Technical Analysis & Project	\$6,300.00
Project Management	\$10,000.00
Installation	\$150,400.00
Other	
TOTAL Projected Budget	\$166,700.00

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PROJECT APPLICATION: PART C

Total Project Metrics Summary:

Estimate the total project benefits that will result from the installation/implementation of the proposed measures listed above. Include, when applicable, the benefits in the table below (both quantitative and descriptive analysis). Refer to Project Application Part A for definitions of the metrics to be used in the table below.

ARRA Funds Requested (Total of all Funds Requested for all Individual Measures)	\$94,530.00
Total Projected Annual Energy Savings by Fuel Type- KWH (Add Annual Energy Savings for all Measures)	\$26,058.69
Total Projected Annual Cost Savings (Add Annual Cost Savings for all Measures)	\$26,058.69
Simple Payback Period - see technical analysis- Actual replacement cost/ Annual Cost Savings (\$150,400/26,059.69) (Funds Requested/Annual Cost Savings)	5.77
Return on Investment (Total Projected Lifecycle Cost Savings for all Individual Measures/Project Funds Requested)	\$521,180.00
Environmental Benefits	<ul style="list-style-type: none"> · use electricity as efficiently as is possible; · reduce the amount of pollution, particularly greenhouse gas emissions, caused by our energy consumption; · reduce, wherever possible, total energy load and watts reduction.
Jobs Created/Retained and other Economic Development Benefits	20 contractor employees

Project Duration:

Estimate project duration from the start of the project to its completion.

PROJECT START DATE	PROJECT COMPLETION DATE
January 2010	September 2010

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Total Project Budget

(Add all Projected Costs for Individual Measures)

COST CATEGORY	PROJECTED COST
Administrative Costs (not to exceed 10% of allocation)	\$9,453.00
Direct Labor for Installation	
Equipment and Materials	
Contracts:	
Project Design-Technical and Project	\$6,300.00
Project Management	\$10,000.00
Installation	\$150,400.00
Other	
<i>TOTAL Projected Budget</i>	\$176,153.00

Funding Request to SC Energy Office: \$94, 530.00 _____

Funding from other sources, if any \$81,623.00 _____
 (SCDMV FUNDED FROM CURRENT CAPITAL PROJECTS)