



American Recovery and Reinvestment Act of 2009

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LOUISIANA DEPARTMENT OF NATURAL RESOURCES

TRANSPORTATION EFFICIENCY & ALTERNATIVE FUELS PROGRAM



Transportation Efficiency & Alternative Fuels Grant Program

Application Workshop

William S. Haas, LEED AP

Agenda

- Introduction on ARRA and SEP
- Application Guidelines
 - Eligible Activities
 - State and Federal Requirements
 - Evaluation of Applications
 - Application Outline
- Application Forms
- Timeline
- Q & A



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American Recovery and Reinvestment Act (ARRA)

Overview:

- The ARRA of 2009 was signed into law by President Obama on February 17th, 2009
- An unprecedented effort to jumpstart our economy, create or save millions of jobs, and address long-neglected challenges

Recovery Act Purpose

- Preserve and create jobs and promote economic recovery
- Assist those most impacted by the recession
- Spur technological advances in science and health via investment
- Generate long-term economic benefits via investment
- Stabilize state and local government budgets

Principles

- As quickly as possible
- Prudent management
- Leveraging public and private funding



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State Energy Program (SEP)

- Administered by the U.S. Department of Energy's (DOE) Office of Energy Efficiency and Renewable Energy (EERE)
- Created in 1996 to provide grants to states and U.S. territories to promote energy conservation and reduce the growth of energy demand.
- Encompasses renewable energy and energy efficiency technologies and addresses all sectors of the economy.
- Under the Recovery Act, states will receive \$3.1 billion for energy projects through SEP.



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State Energy Program (SEP)

Goals:

- Increase energy efficiency to reduce energy costs and consumption;
- Reduce reliance on imported energy;
- Improve the reliability of electricity and fuel supply and the delivery of energy services;
- Reduce the impacts of energy production and use on the environment.



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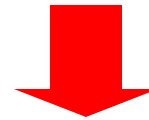


U.S. DOE – SEP

\$3.1 billion

↓ \$71.6 million

Louisiana Department of Natural Resources
EmPower Louisiana Grant Programs



\$9.8 million

State
Buildings

HERO

Renewable
Energy

Transportation
Efficiency

Energy
Star
Rebates



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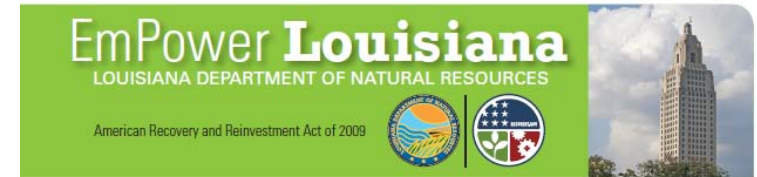
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Program Guidelines

- Introduction
- Program Information
- Program Requirements
- Selection Criteria
- Application Process
- Available Assistance
- Exhibit A – ARRA Special Terms and Conditions
- Exhibit B – EF-1 Environmental Questionnaire






TRANSPORTATION EFFICIENCY & ALTERNATIVE FUELS GRANT PROGRAM

Program Guidelines

SUBMITTAL DEADLINE
4:00 p.m. CST
May 14, 2010

EmPower Louisiana – Transportation Efficiency & Alternative Fuels Grant Program
4171 Essen Lane
Baton Rouge, LA 70809



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Program Information

- Transportation Efficiency & Alternative Fuels Grant Program created to improve public infrastructure and mass transit systems by funding projects that will allow:
 - Purchase/Conversion of efficient vehicles
 - Installation of efficient traffic signals and street lights
 - Installation of alternative fuel infrastructures
- \$9.8 million available through a competitive process.
- Eligible applicants are local government entities, nonprofit organizations and private entities.
- Projects must be located in Louisiana



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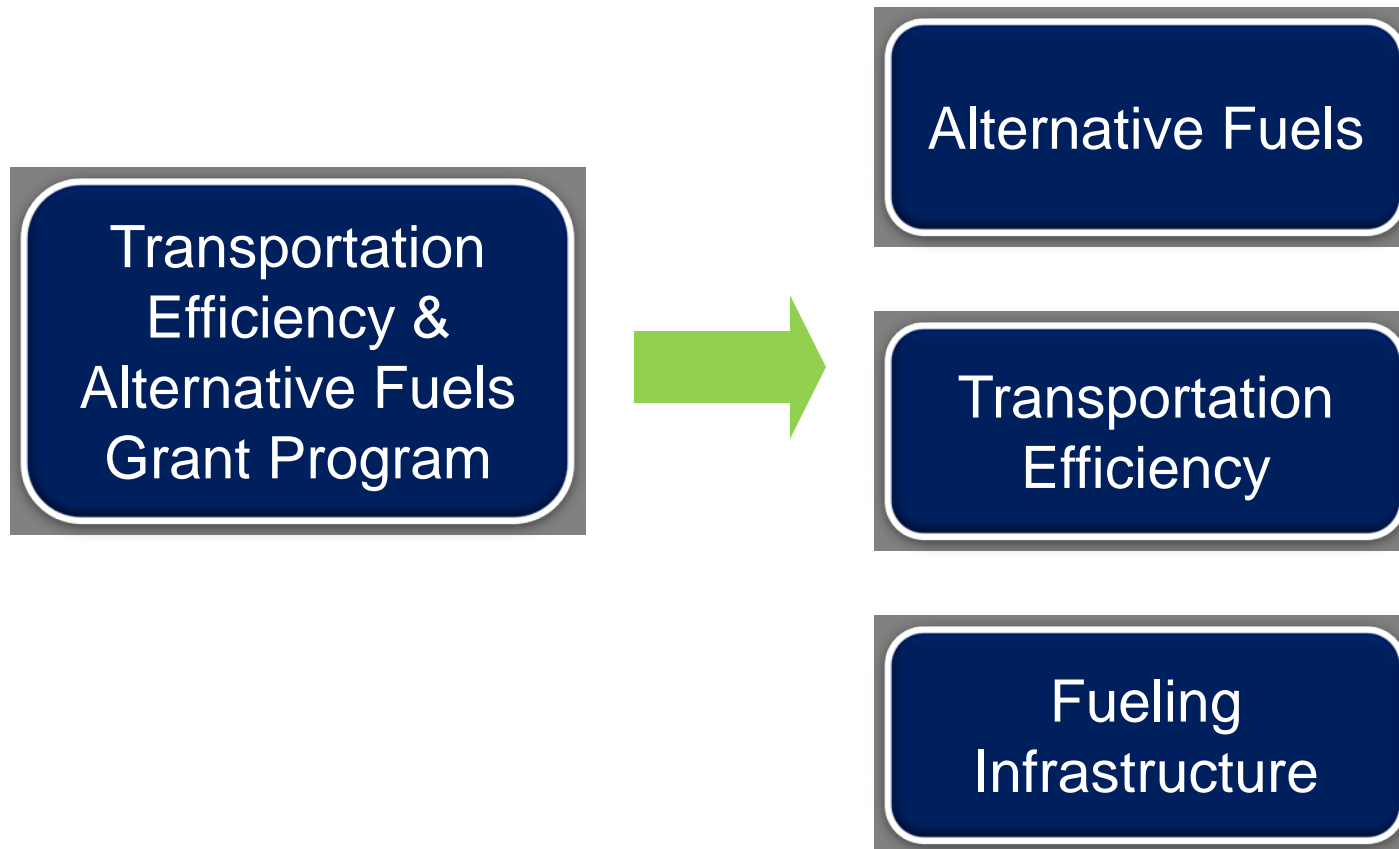
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Project Categories



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Alternative Fuels

Projects

Funding to pay the **incremental costs of purchasing or converting** light, medium and heavy-duty vehicles, traditional mass transit buses, school buses and other fleet vehicles to dedicated compressed natural gas (CNG) vehicles of the same type.

Maximum Funding Level

Public entities: up to 100% of incremental costs for purchasing/ dedicated CNG vehicles. Up to 100% of the costs of converting a vehicle to operate on CNG.

Private entities: up to 50% of incremental costs for purchasing/ dedicated CNG vehicles. Up to 50% of the costs of converting a vehicle to operate on CNG.

Maximum of \$500,000 per application.



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Transportation Efficiency

Projects

Replacement of traffic signals and street lighting with energy efficient lighting technologies including light emitting diodes (LED), High Pressure Sodium (HPS), Induction Lighting, Metal Halides and other technologies.

Funding Levels

Prescriptive Incentives:

- LED lighting
- LED traffic signals
- Metal Halide Lighting
- Induction Lighting

Custom Incentives: measures not included in the prescriptive list, and will be set at \$0.10 per kilowatt-hour saved in one year.

Maximum grant of \$250,000 per application.



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Fueling Infrastructure

Projects

Purchase **equipment** for construction of quick-fuel (fast-fill) CNG fueling stations in existing or new fueling facilities.

Eligible equipment costs include storage tanks, compressors, dryers, fuel dispensers, and other necessary fueling equipment.

Preference will be given to facilities that are publicly-accessible.

Funding Levels

Grant award up to 50% of project costs

Maximum incentive of \$1.25 million per station



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Ineligible Activities

- Projects for any casino or other gambling establishment, aquarium, zoo, golf course, or swimming pool.
- Funds for buying or leasing property.
- Funds to conduct or purchase equipment to conduct research, development or demonstration of energy efficiency or renewable energy techniques and technologies not commercially available.
- Lease payment for equipment and machinery.
- Projects that propose using used equipment.
- Costs incurred prior to signing a Grant Agreement



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Other Considerations

- **Administrative Expenses:** Applicants are allowed 5% administrative expenses if warranted.
- **Multiple Applications:** Applicants may submit multiple applications provided that a maximum of one application is submitted for each activity.
- **Grant Payments:** provided on a cost-reimbursement basis
- **Project Completion:** All projects must be completed by April 30, 2012. DNR will not authorize any extensions.
 - Project completions means all street lighting installed, vehicles converted to CNG, and working fuel-stations that are dispensing CNG.
- **Approval by U.S. DOE:** All projects will be subject to final approval from the U.S. Department of Energy.



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Federal and State Requirements

- Required Registrations
- Reporting Requirements
- Davis-Bacon Act
- Buy American Provision
- Procurement Requirements
- Waste Management
- National Environmental Policy Act (NEPA)
- National Historic Preservation Act (NHPA)



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Davis-Bacon Act Requirements

ARRA section 1606 states that **Davis-Bacon prevailing wage requirement broadly applies to construction projects funded with ARRA appropriations.**

The Davis-Bacon Act requires payment of locally prevailing wages to laborers and mechanics on contracts in excess of \$2,000 for construction, alteration, or repair of public works who are employed directly on the site of the work.



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Buy American Provision

In accordance with ARRA section 1605, ARRA funds applied to a project for the construction or alternation of a public building or public work must use **iron, steel and manufactured goods produced in the United States.**

- Categorical exclusions for LED lights and traffic signals

Exceptions : if iron, steel are not produced in the United States in sufficient and reasonably available quantities and of satisfactory quality; or inclusion of iron, steel produced in the United States will increase the cost of the overall project by more than 25%.



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Waste Management

DNR is required to provide documentation to U.S.DOE demonstrating that an adequate disposal plan has been prepared for sanitary or hazardous waste generated by the proposed activities.

Applicants are therefore required to submit information on the expected waste stream of the proposed project.

Upon award, Grantees shall submit to DNR a complete waste management plan. Projects shall ensure compliance with all federal, state and local regulations.



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National Environmental Policy Act (NEPA)

Requires federal agencies to consider the potential environmental impacts of their proposed actions.

Projects that meet certain criteria will likely be classified as **categorical exclusions** and will not require a NEPA review.

- Energy Efficiency Retrofits (with limitations);
- Installation of alternative fueling pumps and systems (but not underground storage tanks) installed on existing facilities;
- Purchase of alternative fuel vehicles.

If project is not a categorical exclusion, then the applicant will have to complete EF-1 Environmental Questionnaire. Project may also be subject to NEPA review.



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Evaluation of Applications

Overall impact – 30 points

- Estimated economic impacts in the community.

Project Feasibility – 20 points

- Likelihood of project completion, potential to accomplish goals, qualifications, overall technical feasibility, potential for replication.

Energy and Emission Reductions – 20 points

- Potential for the project to save energy measured in gallons or BTUs and reduce emissions (CO₂e).



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Evaluation of Applications

Job creation – 10 points

- Potential to support economic development in Louisiana

Cost-effectiveness – 10 points

- Measure of how effective grant dollars are in achieving a result.
(gallons or BTUs/\$1,000 spent)

Leveraged funds – 10 points

- Percentage of project cost that will be funded by the Applicant or other funding sources



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Application Outline

- I. **Project Narrative:** description of the proposed project, goals, objectives, SOW, project location, licenses and permits, merits of the project.
- II. **Profile of the Applicant Organization:** type of organization, mission, primary services, history, size, management team, and partners.
- III. **Relevant Experience and Qualifications:** information on past projects of similar scope and size, experience of the management team.
- IV. **Refueling Infrastructure: if applicable,** describe the proposed quick-fuel CNG system including components, materials, and estimated annual production. Identify if publicly-accessible.
- V. **Project Schedule:** proposed timeline for project milestones.



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Application Outline

- VI. Project Budget:** budget summary and detailed budget (Form B – “Project Budget.”)
- VII. CNG Vehicle Purchases and Conversions:** if applicable, information on vehicle to be purchased / converted (Form C – “Alternative Fuels”)
- VIII. Energy Efficient Infrastructure Upgrades:** If applicable, information on the type of equipment to be purchased (Form D – “Transportation Efficiency”)
- IX. Waste Stream:** information on the waste stream to be generated (Form C – “Waste Stream.”)
- X. National Environmental Policy Act:** Form D – “National Environmental Policy Act.” and Form E – “EF1 Environmental Questionnaire”.



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Application Forms

Form A: Application Cover Page

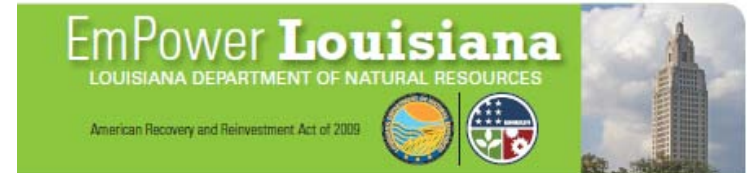
Form B: Project Budget

Form C: Alternative Fuels

Form D: Transportation Efficiency

Form E: Waste Stream

Form F: National Environmental Policy Act



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FORM A - APPLICATION COVER PAGE

Applicant Information

Applicant Name:	City of Natchitoches
DUNS Number:	095637982
CCR Number:	65C78F
Mailing Address:	P. O. Box 898
City:	Natchitoches
Zip Code + 4:	7145-9724

Contact Name:	David Harrison
Title:	Grant Administrator
Email Address:	dhamison@natchitoches.com
Telephone Number:	225 312 7142
Fax Number:	225 312 7145
Funding Requested:	\$475,089.00

Project Activity

Alternative Fuels

Transportation Efficiency

Refueling Infrastructure

Project Information

Project Title: City Fleet Conversion

Proposed Start Date: 06/15/2010

Planned Completion Date: 03/12/2012

Project Site Address: City Hall
700 Second Street Natchitoches, LA. 71457

City: Natchitoches
Zip Code + 4: 7145-9724



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Project Information (continued)

Entity Type

<input type="checkbox"/>	Private Business
<input type="checkbox"/>	Not for Profit
<input checked="" type="checkbox"/>	Local Government
<input type="checkbox"/>	Other (please list)

<input type="checkbox"/>	K-12 School
<input type="checkbox"/>	State Agency
<input type="checkbox"/>	University, College

Metrics Activity

Jobs Created/Retained: FTE
 Annual Electricity Savings: kWh

Emissions Reduced: CO₂e
 Annual Gas/Diesel Savings: gallons

•Only applicable to Transportation efficiency projects

•Only applicable to Alternative Fuels and Refueling Infrastructure projects

•Guidance for Metric Activity section is available on the website: www.empowerlouisiana.org



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Financial Information

	Amount (\$)	Percent
Funding Requested	\$475,089.00	18.59%
Proposed Funds Leveraged	\$2,079,993.00	81.40%
Total Project Cost	\$2,555,082.00	100%

- Cannot be more than maximum Grant Award.
- Should be based on rules of the program component (incremental costs, prescriptive measures etc.)

Signature

I hereby certify that I am authorized to submit this application and that the information presented in this application is true and accurate. In addition, I agree to abide by all the terms and conditions described in the Louisiana Department of Natural Resources "EmPower Louisiana – Transportation Efficiency & Alternative Fuels Grant Program Guidelines", application forms, and all supporting documents.

Name

Signature

Date



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FORM B - PROJECT BUDGET

Budget Summary

Budget Item	(A) Funding Requested (\$)	(B) Proposed Funds Leveraged (\$)	(C) = (A) + (B) Total Costs (\$)	Percentage (%)
Equipment	\$455,089.00	\$2,029,993.00	\$2,485,082.00	97.00%
Direct Labor	\$0.00	\$50,000.00	\$50,000.00	1.80%
Other (please explain below)	\$20,000.00	\$0.00	\$20,000.00	14.00%
Total	\$475,089.00	\$2,079,993.00	\$2,555,082.00	100%

Other Budget Items:

Administrative costs

- Cannot be more than 5% of funding requested



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Detailed Budget (continued)

B. Direct Labor: List all applicable costs for design, construction, installation or repair.

Title/Job Classification	Number of Hours	Billing Rate (\$/hr)	Total Cost (\$)	Funding Requested (\$)
Mechanic	50.00	\$23.00	\$1,150.00	\$0.00
Electrician	100.00	\$25.00	\$2,500.00	\$0.00
Contractor - Pump Installation	50.00	\$28.00	\$1,400.00	\$0.00
Total	150.00		\$3,650.00	\$0.00

C. Other Costs: List all other operating expenses that will be incurred during the project.

Activity	Number of Hours	Billing Rate (\$/hr)	Total Cost (\$)	Funding Requested (\$)
Administrative Expenses	80.00	\$30.00	\$2,400.00	\$2,400.00

•Labor is not funded under this program



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Leveraged Funds

List the sources of funding that will be leveraged for this project. Identify the date when the funds were received by the applicant.

Source	Date of Award	Total Funds (\$)
City's Budget	01/01/2010	\$1,779,993.00
EECBG Grant	03/15/2010	\$300,000.00
Total		\$2,079,993.00



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FORM C - ALTERNATIVE FUELS

Vehicle Purchases

For every CNG vehicle to be purchased, applicants must fill out the table provided below:

- **Vehicle Type:** identify whether the vehicle is a sedan, SUV, van, minivan, pick-up truck, bus, specialized truck or other.
- **Make and Model:** identify the manufacturer of the vehicle as well as the model and the year.
- **Gross Vehicle Weight Ratio:** the rated weight of the vehicle and its carrying capacity.
- **Unit Cost:** identify the cost of purchasing one unit of the proposed CNG vehicle.
- **Baseline Make and Model:** identify the make and model of a comparable gasoline-fueled vehicle.
- **Baseline Cost:** identify the cost of purchasing one unit of the comparable gasoline-fueled vehicle.
- **Incremental Cost:** the difference between the unit cost and the baseline cost.
- **Number of Units:** number of vehicles to be purchased.
- **Total Funding Requested:** the incremental cost of the vehicle times a factor (k), times the number of units to be purchased. The factor k equals 0.5 (50%) for private entities, and 1 (100%) for public and nonprofit entities.

Vehicle Type	Make and Model	Gross Vehicle Weight Ratio	(A) Unit Cost (\$)	Baseline Make and Model	(B) Baseline Cost (\$)	(C) = (A) – (B) Incremental Cost (\$)	(D) Number of Units	(E) = k(C) x (D) Total Funding Requested
City Bus	ST Express 40-foot CNG Bus	208"	\$351,228.00	CTS Rear Engi	\$289,999.00	\$61,227.00	7	\$428,589.00

• Total funding requested for fleet purchases and vehicle conversions cannot be more than \$500,000



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FORM C - ALTERNATIVE FUELS

Vehicle Conversions

For every CNG vehicle to be converted, applicants must fill out the table provided below:

- **Vehicle Type:** identify whether the vehicle is a sedan, SUV, van, minivan, pick-up truck, bus, specialized truck or other.
- **Make and Model:** identify the manufacturer of the vehicle as well as the model and the year.
- **Conversion Kit Manufacturer:** identify the manufacturer of the conversion kit.
- **Cost of Conversion Kit:** identify the make and model of a comparable gasoline-fueled vehicle.
- **Number of Units:** number of vehicles to be converted.
- **Total Funding Requested:** the cost of the conversion kit times a factor (k), times the number of units to be converted. The factor k equals 0.5 (50%) for private entities, and 1 (100%) for public and nonprofit entities.

Vehicle Type	Make and Model	Conversion Kit Manufacturer	(A) Cost of Conversion Kit (\$)	(B) Number of Units	(C) = k(A) x (B) Total Funding Requested
Sedan	Ford Fusion Hybrid 2010	Giligan Automboiles	\$4,000.00	10.00	\$40,000.00

- Total funding requested for fleet purchases and vehicle conversions cannot be more than \$500,000



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FORM D - TRANSPORTATION EFFICIENCY

Prescriptive Incentives

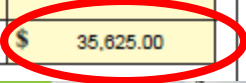
Applicants requesting incentives for measures included in the table below should fill out the boxes in “cream” color.

The Transportation Efficiency & Alternative Fuels Program will offer both “prescriptive” and “custom” incentives. The prescriptive incentives will cover street lighting and traffic signals. The custom incentives may be provided for other measures not included in the prescriptive list and will be given at ten cents of dollar per kilowatt-hour saved in a year (\$0.10/kWh).

Applicants must include a **copy of the manufacturer’s specifications for every proposed piece of equipment** for which funds are being requested.

Equipment Type	Unit	(A) Incentive (\$)	(B) Number of Units	(A)x(B) Total Incentive (\$)
Pulse Start Metal Halide				
100 W - 300 W	Fixture	\$75.00		
300 W - 500 W	Fixture	\$125.00	25	\$3,125.00
LED and Induction Lighting				
75 W – 104 W	Fixture	\$80.00		
105 W – 149 W	Fixture	\$100.00		
150 W - 240 W	Fixture	\$120.00		
150 W - 240 W	Fixture	\$225.00	100	\$22,500.00
LED Traffic Signal Module¹				
8" Traffic LED Signal Head	Module	\$100.00		
12" Traffic LED Signal Head	Module	\$110.00	50	\$5,500.00
	Module	\$26.00		
	Module	\$45.00	50	\$2,250.00
	Module	\$39.00		
	Module	\$45.00	50	\$2,250.00
	Module	\$45.00		
Total*				\$ 35,625.00

•Total funding requested for prescriptive and custom incentives cannot be more than \$250,000

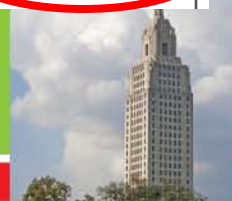


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FORM D - TRANSPORTATION EFFICIENCY

Custom Incentives

Description of Equipment	Make and Model	Annual Energy Savings (kWh)	Measure Cost (\$)	Incentive (\$/kWh)	Incentive (\$)
				\$0.10	
				\$0.10	
				\$0.10	
				\$0.10	
				\$0.10	
				\$0.10	
				\$0.10	



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FORM E - WASTE STREAM

Waste Stream Description

Indicate if the proposed project will generate a waste stream. For activities that will generate a waste stream, describe the waste and your methodology for waste handling and disposal.



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FORM F - NATIONAL ENVIRONMENTAL POLICY ACT

Applicability of NEPA to the Proposed Project



The proposed project is categorically excluded from NEPA because it falls within the following category and does not involve "extraordinary circumstances" within the meaning of 10 C.F.R. Section 1021.410:



Energy Efficiency Retrofits - limited to:

Installation of insulation, efficient interior and exterior lighting, HVA systems, high-efficiency shower/faucet upgrades, weather sealing, purchase and installation of ENERGY STAR® appliances, installation of solar powered appliances with improved efficiency, replacement of windows and doors.



Installation of alternative fueling pumps and systems (but not underground storage tanks) installed on existing facilities (other than a large biorefinery); purchase of alternative fuel vehicles.



The proposed project falls within the categories listed above but may involve "extraordinary circumstances" within the meaning of 10 C.F.R Section 1021.410, for the following reason(s):



The proposed project is not categorically excluded, for the following reason(s):



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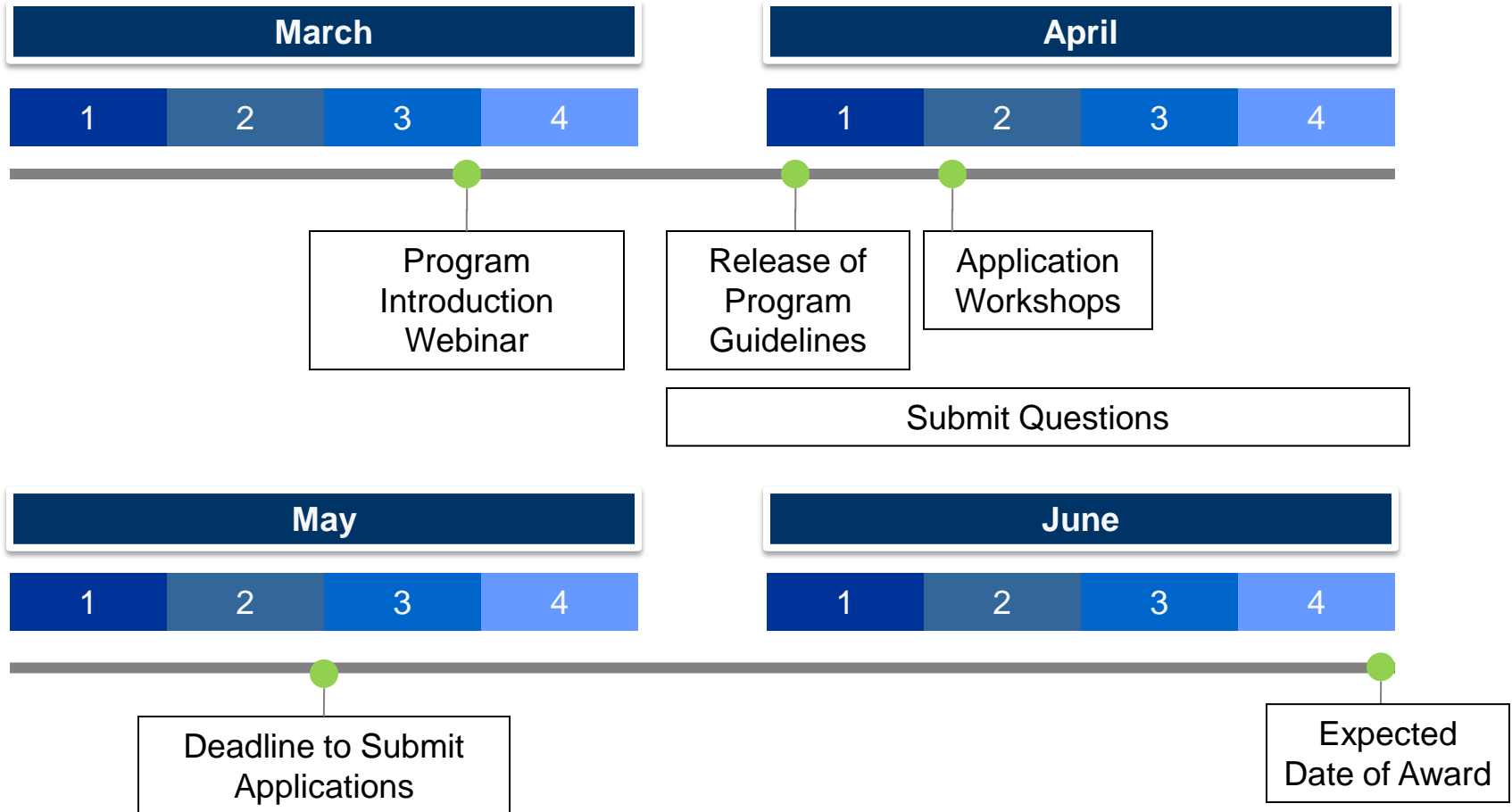
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Timeline



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Submittal of Applications

- Submit one hard copy of the completed application including all Forms.
- Submit one electronic version of all documents via email or on a CD.
- Encouraged that applications be printed duplex on post consumer recycled content paper.
- Submit to:

Louisiana Department of Natural Resources

Attention: Transportation Efficiency & Alternative Fuels Program

4171 Essen Lane

Baton Rouge, LA 70809

Applications must be received by 4:00 p.m. CST

May 14, 2010



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Contact Information

Call: 1-877-319-1368 (toll-free)

Email: lacleantransport@shawgrp.com

Website: <http://www.empowerlouisiana.org>



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Questions?

- Questions can be submitted via email to lacleantransport@shawgrp.com
- Questions & Answers will be made public via a rolling FAQ document.
- Any Questions answered during this session will be recorded and published as part of the FAQ as well.



American Recovery and Reinvestment Act of 2009

EmPower Louisiana

LOUISIANA DEPARTMENT OF NATURAL RESOURCES

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