



American Recovery and Reinvestment Act of 2009

EmPower Louisiana

LOUISIANA DEPARTMENT OF NATURAL RESOURCES

RENEWABLE ENERGY PROGRAM



Renewable Energy 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



American Recovery and Reinvestment Act of 2009

EmPower Louisiana

LOUISIANA DEPARTMENT OF NATURAL RESOURCES

RENEWABLE ENERGY PROGRAM



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



American Recovery and Reinvestment Act of 2009

EmPower Louisiana

LOUISIANA DEPARTMENT OF NATURAL RESOURCES

RENEWABLE ENERGY PROGRAM



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.



American Recovery and Reinvestment Act of 2009

EmPower Louisiana

LOUISIANA DEPARTMENT OF NATURAL RESOURCES

RENEWABLE ENERGY PROGRAM



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.



American Recovery and Reinvestment Act of 2009

EmPower **Louisiana**
LOUISIANA DEPARTMENT OF NATURAL RESOURCES

RENEWABLE ENERGY PROGRAM



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



American Recovery and Reinvestment Act of 2009

EmPower **Louisiana**

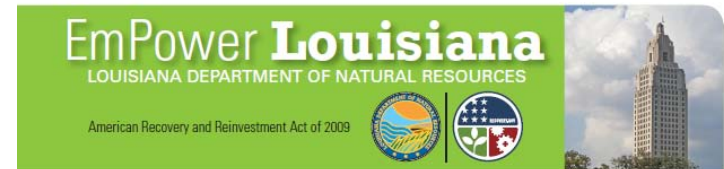
LOUISIANA DEPARTMENT OF NATURAL RESOURCES

RENEWABLE ENERGY PROGRAM



Program Guidelines

- Introduction
- Program Information
- Program Requirements
- Selection Criteria
- Application Process
- Available Assistance
- Exhibit A – ARRA Special Terms and Conditions



RENEWABLE ENERGY GRANT PROGRAM

Program Guidelines

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

EmPower Louisiana – Renewable Energy Grant Program
4171 Essen Lane
Baton Rouge, LA 70809

A row of three small images illustrating renewable energy: a wind turbine, a solar panel array, and a biomass facility with a large pile of wood chips.

EmPower **Louisiana**
LOUISIANA DEPARTMENT OF NATURAL RESOURCES

RENEWABLE ENERGY PROGRAM



Program Introduction

- Renewable Energy Program Created to:
 - Encourage the development, implementation and deployment of cost-effective renewable energy technologies
 - Support the creation of additional employment opportunities
 - Stimulate market demand for emerging renewable energy systems.
- \$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.



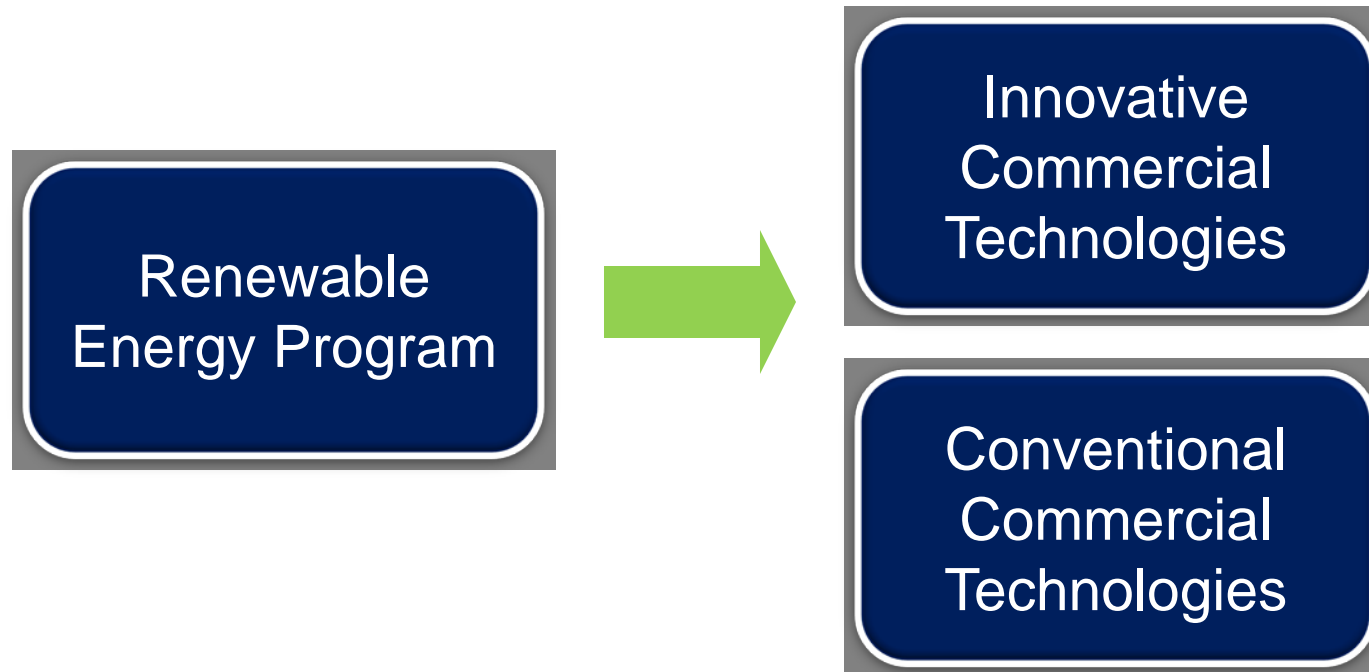
American Recovery and Reinvestment Act of 2009

EmPower **Louisiana**
LOUISIANA DEPARTMENT OF NATURAL RESOURCES

RENEWABLE ENERGY PROGRAM



Project Categories



American Recovery and Reinvestment Act of 2009

EmPower Louisiana

LOUISIANA DEPARTMENT OF NATURAL RESOURCES

RENEWABLE ENERGY PROGRAM



Innovative Commercial Technologies

Projects	<p>Proven commercial viability within the State of Louisiana.</p> <p>Must use new components that are certified or tested to be reliable.</p>
Maximum Funding Level	<p>Grant award equal to 50% of eligible project costs</p> <p>Maximum award of \$1,000,000 per application.</p>
Eligible Project Costs	<p>Purchase and installation of renewable energy generation and production equipment.</p>



American Recovery and Reinvestment Act of 2009

EmPower Louisiana

LOUISIANA DEPARTMENT OF NATURAL RESOURCES

RENEWABLE ENERGY PROGRAM



Conventional Commercial Technologies

Projects

Technologies that are commercially available and economically viable within the State of Louisiana, including but not limited to Solar Thermal, Solar Photovoltaic, Geothermal, Biomass, Biogas, Biofuels, Waste Heat Recovery and Combined Heat and Power systems.

Funding Levels

Grant award equal to 50% of eligible project costs for public and nonprofit entities.

Grant award equal to 30% of eligible project costs for private entities.

Maximum award of \$5,000,000 per application

Eligible Project Costs

Purchase and installation of renewable energy generation and production **equipment**.



American Recovery and Reinvestment Act of 2009

EmPower Louisiana

LOUISIANA DEPARTMENT OF NATURAL RESOURCES

RENEWABLE ENERGY PROGRAM



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 involving the installation of renewable energy equipment at single-family or multifamily residences.
- Costs incurred prior to signing a Grant Agreement



American Recovery and Reinvestment Act of 2009

EmPower Louisiana

LOUISIANA DEPARTMENT OF NATURAL RESOURCES

RENEWABLE ENERGY PROGRAM



Other Considerations

- **Administrative Expenses:** Applicants are allowed 5% administrative expenses if warranted.
- **Grant Payments:** Up to 60% of grant funds may be dispersed upon award. Further disbursements shall be made based on completion of project milestones with 20% of the funds provided after completion of the project.
- **Project Completion:** All projects must be completed by April 30, 2012. DNR will not authorize any extensions.
 - Project completions means projects generating energy.
- **Approval by U.S. DOE:** All projects will be subject to final approval from the U.S. Department of Energy.



American Recovery and Reinvestment Act of 2009

EmPower **Louisiana**
LOUISIANA DEPARTMENT OF NATURAL RESOURCES

RENEWABLE ENERGY PROGRAM



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)



American Recovery and Reinvestment Act of 2009

EmPower **Louisiana**
LOUISIANA DEPARTMENT OF NATURAL RESOURCES

RENEWABLE ENERGY PROGRAM



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.



American Recovery and Reinvestment Act of 2009

EmPower **Louisiana**
LOUISIANA DEPARTMENT OF NATURAL RESOURCES

RENEWABLE ENERGY PROGRAM



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.**

The only exceptions to this rule would be 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%.



American Recovery and Reinvestment Act of 2009

EmPower Louisiana

LOUISIANA DEPARTMENT OF NATURAL RESOURCES

RENEWABLE ENERGY PROGRAM



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.



American Recovery and Reinvestment Act of 2009

EmPower Louisiana

LOUISIANA DEPARTMENT OF NATURAL RESOURCES

RENEWABLE ENERGY PROGRAM



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.

- Development, implementation, and installation of onsite renewable energy technology (with limitations on size of project)

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.



American Recovery and Reinvestment Act of 2009

EmPower Louisiana

LOUISIANA DEPARTMENT OF NATURAL RESOURCES

RENEWABLE ENERGY PROGRAM



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 generation and Emission Reductions – 20 points

- Potential to generate renewable energy (kWh or BTUs) and to reduce emissions (CO₂e).



American Recovery and Reinvestment Act of 2009

EmPower Louisiana

LOUISIANA DEPARTMENT OF NATURAL RESOURCES

RENEWABLE ENERGY PROGRAM



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.
(KWh/\$1,000 spent)

Leveraged funds – 10 points

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



American Recovery and Reinvestment Act of 2009

EmPower Louisiana

LOUISIANA DEPARTMENT OF NATURAL RESOURCES

RENEWABLE ENERGY PROGRAM



Application Outline

- I. **Project Narrative:** description of the proposed project, including goals and objectives, SOW, proposed location, licenses and permits, project outcomes.
- II. **Technology Narrative:** describe renewable energy system including the size, components, materials, and estimated annual production.
- III. **System Performance:** detailed analysis to estimate the annual amount of energy generated by the proposed system.
- IV. **Project Schedule:** proposed timeline for project milestones.



American Recovery and Reinvestment Act of 2009

EmPower Louisiana

LOUISIANA DEPARTMENT OF NATURAL RESOURCES

RENEWABLE ENERGY PROGRAM



Application Outline

- V. Profile of the Applicant Organization:** type of organization, mission, primary services, history, size, management team, and partners.
- VI. Relevant Experience and Qualifications:** information on past projects of similar scope and size, experience of the management team.
- VII. Project Budget:** budget summary and detailed budget (Form B – “Project Budget.”)
- VIII. Waste Stream:** information on the waste stream to be generated (Form C – “Waste Stream.”)
- IX. National Environmental Policy Act:** Form D – “National Environmental Policy Act.” and Form E – “EF1 Environmental Questionnaire”.



American Recovery and Reinvestment Act of 2009

EmPower Louisiana

LOUISIANA DEPARTMENT OF NATURAL RESOURCES

RENEWABLE ENERGY PROGRAM



Application Forms

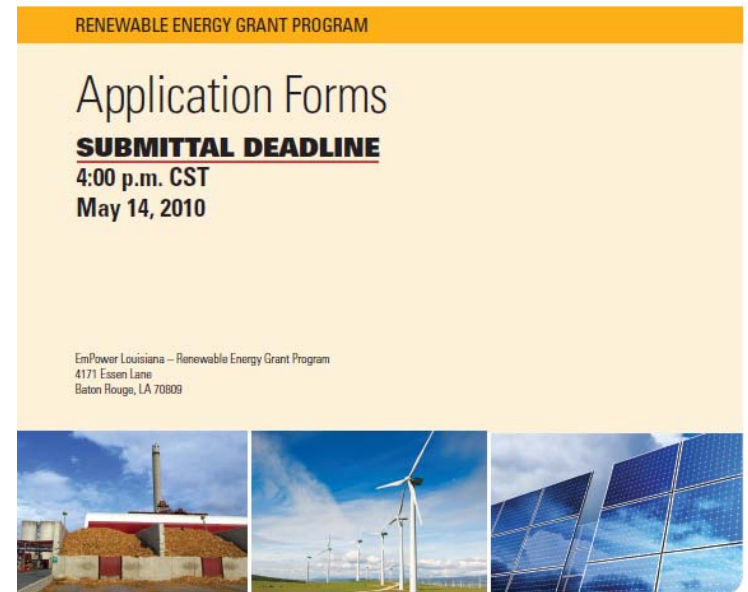
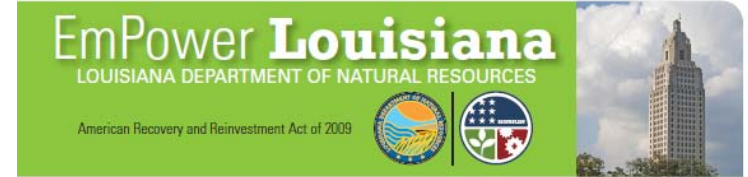
Form A: Application Summary Page

Form B: Project Budget

Form C: Waste Stream

Form D: National Environmental Policy Act

Form E: EF-1 Environmental Questionnaire



EmPower **Louisiana**
LOUISIANA DEPARTMENT OF NATURAL RESOURCES



RENEWABLE ENERGY PROGRAM

FORM A - APPLICATION SUMMARY PAGE

Applicant Information

Applicant Organization Name:	CLS Clean Energy
DUNS Number:	095637982
FEIN Number:	65C78F
Mailing Address:	P. O. Box 898
City:	Lafayette
Zip Code + 4:	71645-9724

Contact Name:	David Harrison
Title of Contact:	Energy Consultant
Email Address:	dharrison@clsenergy.com
Telephone Number:	225 312 7142
Fax Number:	225 312 7145
Funding Requested:	\$3,000,000.00

Project Information

Project Title:	Twin Groves Community Wind Farm
Proposed Start Date:	06/01/2010
Planned Completion Date:	03/30/2012

Natural Gas Utility:	Lafayette Utility Systems
Electric Utility:	Lafayette Utility Systems
Project Site Address:	650 Hwy 55
City:	Finn
Zip Code + 4:	98526-1802



American Recovery and Reinvestment Act of 2009

EmPower Louisiana

LOUISIANA DEPARTMENT OF NATURAL RESOURCES

RENEWABLE ENERGY PROGRAM



Project Category

Innovative Comercial Technologies

Conventional Comercial Technologies

Project Type

Solar Thermal

Solar Photovoltaic

Geothermal

Combined Heat and Power

Biogas

Wind Energy

Biomass

Hydropower Energy

Waste Heat Recovery

Other: _____

Entity Type

Private Business

Not for Profit

Local Government

Other (please list)

K-12 School

State Agency

University, College

Brief Project Description:



American Recovery and Reinvestment Act of 2009

EmPower Louisiana

LOUISIANA DEPARTMENT OF NATURAL RESOURCES

RENEWABLE ENERGY PROGRAM



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

Metrics Activity

Jobs Created/Retained:

2.79

FTE

GHG Emissions Reduced:

9151.94

CO₂e

Annual Energy Generation:

19,710,000

k-Wh

Cost Effectiveness:

22.42

MMBtu/\$1000

Financial Information

	Amount (\$)	Percent
Funding Requested	\$3,000,000.00	30.00%
Proposed Funds Leveraged	\$7,000,000.00	70.00%
Total Project Cost	\$10,000,000.00	100%

•Max 30% for private entities, 50% for public entities
 •Funding requested cannot be more than Maximum Grant Amount

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 - Renewable Energy Grant Program”, application forms, and all supporting documents.

Name

Signature

Date



EmPower Louisiana

LOUISIANA DEPARTMENT OF NATURAL RESOURCES

RENEWABLE ENERGY PROGRAM



FORM B - PROJECT BUDGET

Budget Summary

Budget Item	(A) Funding Requested (\$)	(B) Proposed Funds Leveraged (\$)	(C) = (A) + (B) Total Costs (\$)	Percentage (%)
Equipment	\$2,000,000.00	\$4,000,000.00	\$6,000,000.00	60.00%
Engineering/Design	N/A	\$500,000.00	\$500,000.00	5.00%
Site Preparation	N/A	\$750,000.00	\$750,000.00	7.50%
Installation	\$1,000,000.00	\$1,000,000.00	\$2,000,000.00	20.00%
Monitoring Systems		\$250,000.00	\$250,000.00	2.50%
Other (please explain below)		\$500,000.00	\$500,000.00	5.00%
Other (please explain below)			\$0.00	0.00%
Total	\$3,000,000.00	\$7,000,000.00	\$10,000,000.00	100%

Other Budget Items:

Permitting



American Recovery and Reinvestment Act of 2009

EmPower Louisiana

LOUISIANA DEPARTMENT OF NATURAL RESOURCES

RENEWABLE ENERGY PROGRAM



Detailed Budget

A. Equipment/Materials: List all items of equipment to be purchased valued greater than \$100.

Equipment/Material	Quantity	Unit Cost (\$)	Funding Requested (\$)	Proposed Funds Leveraged (\$)	Total (\$)
GE 1.5 MW Wind Turbine	4	\$1,500,000.00	\$2,000,000.00	\$200,000.00	\$4,000,000.00
Monitoring System	\$1.00	\$500,000.00	\$0.00	\$500,000.00	\$500,000.00
Transformers	\$3.00	\$500,000.00	\$0.00	\$500,000.00	\$500,000.00
Underground cables		\$1,000,000.00	\$0.00	\$1,000,000.00	\$1,000,000.00

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

Title/Job Classification	Number of Hours	Billing Rate (\$/hr)	Total Cost (\$)	Funding Requested (\$)
Contractor	1500	\$50.00	\$75,000.00	\$75,000.00
Technician	35000	\$20.00	\$700,000.00	\$700,000.00
Engineering	750	\$75.00	\$56,250.00	\$0.00



American Recovery and Reinvestment Act of 2009

EmPower Louisiana

LOUISIANA DEPARTMENT OF NATURAL RESOURCES

RENEWABLE ENERGY PROGRAM



Leveraged Funds

List the sources of funding that will be leveraged for this project, including funding contributed by financial partners and other public funds. Identify the date when the funds were received by the Applicant.

The Applicant must provide letters from each financial partner or funding entity indicating the amount of their support and the project commencement date expected for their partnership. In the event of funding by private foundations or public sources, if such a letter is not yet available, indicate the anticipated source and provide supporting or guidelines for the anticipated source.

Source	Date of Award	Total Funds (\$)
Bank Loan	11/09/2009	\$6,500,000.00
Total		\$6,500,000.00



American Recovery and Reinvestment Act of 2009

EmPower Louisiana

LOUISIANA DEPARTMENT OF NATURAL RESOURCES

RENEWABLE ENERGY PROGRAM



FORM C - 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.



American Recovery and Reinvestment Act of 2009

EmPower Louisiana

LOUISIANA DEPARTMENT OF NATURAL RESOURCES

RENEWABLE ENERGY PROGRAM



FORM D - 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:

Development, implementation, and installation of onsite renewable energy technology that generates electricity from renewable resources, provided that projects are limited to:

- Solar Electricity/Photovoltaic - appropriately sized system or unit on existing rooftops and parking shade structures; or a 60 KW system or smaller unit installed on the ground within the boundaries of an existing facility.
- Wind Turbine - 20 KW or smaller.
- Solar Thermal - system must be 20 KW or smaller.
- Solar Thermal Hot Water - appropriately sized for residences or small commercial buildings.
- Ground Source Heat Pump - 5.5 tons of capacity or smaller, horizontal/vertical, ground, closed-loop system.
- Combined Heat and Power System - boilers sized appropriately for the buildings in which they are located.
- Biomass Thermal - 3 MMBTUs per hour or smaller system with appropriate Best Available Control Technologies (BACT) installed and operated.

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

Installed Capacity fo wind farm greater than 20 KW (6 MW farm)



Form E - EF-1 Environmental Questionnaire has been completed.

FORM D - NATIONAL ENVIRONMENTAL POLICY ACT

NEPA Review

Indicate if any activities have already been conducted that may expedite a NEPA review for the proposed project, including any environmental assessments (EA) or environmental impact statements (EIS) that have been prepared or any other type of studies.



American Recovery and Reinvestment Act of 2009

EmPower Louisiana

LOUISIANA DEPARTMENT OF NATURAL RESOURCES

RENEWABLE ENERGY PROGRAM



FORM E - EF-1 ENVIRONMENTAL QUESTIONNAIRE

NETL F 451.1-SEP
(3/2009) OPI=320
(Previous Editions Obsolete)

U.S. DEPARTMENT OF ENERGY ENVIRONMENTAL QUESTIONNAIRE

I. BACKGROUND

The Department of Energy (DOE) National Environmental Policy Act (NEPA) Implementing Procedures (10 CFR 1021) require careful consideration of the potential environmental consequences of all proposed actions during the early planning stages of a project or activity. DOE must determine at the earliest possible time whether such actions will require either an Environmental Assessment or an Environmental Impact Statement, or whether they qualify for a Categorical Exclusion. To comply with these requirements, an Environmental Questionnaire must be completed for each proposed action to provide DOE with the information necessary to determine the appropriate level of NEPA review.

II. INSTRUCTIONS

Separate copies of the Environmental Questionnaire should be completed by the principal proposer and appropriate proposer's subcontractor. In addition, if the proposed project includes activities at different locations, an independent questionnaire should be prepared for each location. Supporting information can be provided as attachments.

In completing this Questionnaire, the proposer is requested to provide specific information and quantities, when applicable, regarding air emissions, wastewater discharges, solid wastes, etc., to facilitate the necessary review. The proposer should identify the location of the project and specifically describe the activities that would occur at that location. In addition, the proposer will be required to submit an official copy of the project's statement of work (SOW) or statement of project objective (SOPO) that will be used in the contract/agreement between the proposer and DOE.



American Recovery and Reinvestment Act of 2009

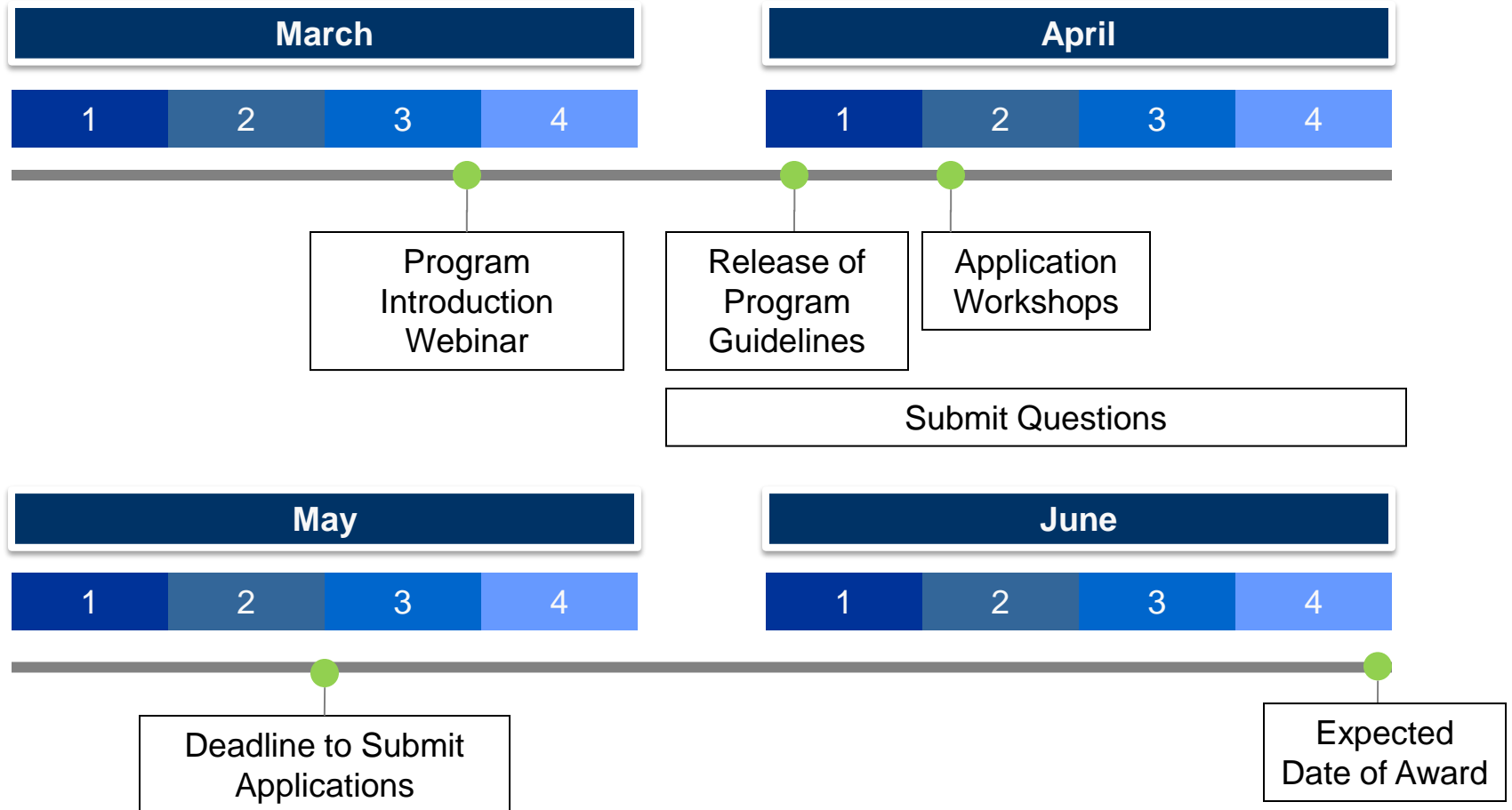
EmPower Louisiana

LOUISIANA DEPARTMENT OF NATURAL RESOURCES

RENEWABLE ENERGY PROGRAM



Timeline



American Recovery and Reinvestment Act of 2009

EmPower Louisiana
LOUISIANA DEPARTMENT OF NATURAL RESOURCES

RENEWABLE ENERGY PROGRAM



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: Renewable Energy Program

4171 Essen Lane

Baton Rouge, LA 70809

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

May 14, 2010



American Recovery and Reinvestment Act of 2009

EmPower Louisiana

LOUISIANA DEPARTMENT OF NATURAL RESOURCES

RENEWABLE ENERGY PROGRAM



Contact Information

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

Email: larenewables@shawgrp.com

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



American Recovery and Reinvestment Act of 2009

EmPower Louisiana

LOUISIANA DEPARTMENT OF NATURAL RESOURCES

RENEWABLE ENERGY PROGRAM



Questions?

- Questions can be submitted via email to larenewables@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

RENEWABLE ENERGY PROGRAM

