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State Energy Program Formula Grants

American Recovery and Reinvestment Act (ARRA) 2009

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**Nevada State Plan**

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## Overview

The American Recovery and Reinvestment Act (ARRA) was enacted to stimulate the economy and to create and/or retain jobs. The act's goals are to: 1) increase energy efficiency to reduce energy costs and consumption for consumers, businesses and government; 2) reduce reliance on imported energy; 3) improve the reliability of electricity and fuel supply and the delivery of energy services; and 4) reduce the impacts of energy production and use on the environment.

Under the ARRA the Nevada State Energy Program (SEP) is eligible to receive up to \$34,714,000.00 in funding. The Nevada SEP ARRA program will allocate that funding across four market areas:

Market	Activity/Budget*	Program Description
<b>Buildings</b>	Retrofit State Buildings  <b>\$ 7,945,000*</b>	Use LED lighting, lighting control, and window performance technologies to <b>increase energy efficiency and reduce energy costs and consumption</b> and renewable energy technologies and renewable energy systems to <b>reduce reliance on imported energy and reduce the impacts of energy production use on the environment</b>
	Energy Efficiency and Renewable Energy for Schools  <b>\$ 8,522,500*</b>	Implement energy efficiency measures to <b>increase energy efficiency and reduce energy consumption</b> and renewable energy technologies and renewable energy systems to <b>reduce reliance on imported energy and reduce the impacts of energy production use on the environment</b>
<b>Transportation</b>	Energy Efficient Traffic Signals  <b>\$ 1,702,500*</b>	Install energy-efficient LED traffic signals and/or street lights on intersections throughout the state to <b>increase energy efficiency and reduce energy costs and consumption</b>
	Alternative Fueling Infrastructure  <b>\$ 170,250*</b>	Install a divided fuel tank to <b>permit the continued use of gasoline as a motor fuel as well as add E 85 Ethanol as an additional fuel option</b> for the many flex fuel vehicles currently in the State fleet, <b>making the acquisition of flex fuel vehicles more attractive in current and future purchasing cycles</b>
<b>Electrical Power and Renewable Energy</b>	Revolving Loans  <b>\$ 9,348,100*</b>	Provide revolving loans for business, community-scale and utility-scale renewable energy and energy efficiency projects and use the interest from the loans to <b>create a sustainable revolving loan program that will last far beyond the life of the ARRA program</b>
<b>Policy, Planning and Energy Security</b>	Engineering, Feasibility, Permitting, EIS and Project Implementation  <b>\$ 5,675,000*</b>	Fund engineering, feasibility, permitting and environmental impact studies and project implementation to <b>help get stalled projects off the ground</b>
	Building Codes  <b>\$ 1,350,650*</b>	Fund the adoption of codes and regulations and for the development and implementation of training programs for building code officials, builders, engineers and architects in Nevada (a required activity.)

\* NOTE: Budget of each activity includes the Program and Administration Costs

All programs will leverage funds to the maximum extent possible. To provide accountability for the use of funds, and to measure program effectiveness, the Nevada State Office of Energy (NSOE) is required by the United States Department of Energy (DOE) to report the outcome of the NSOE SEP ARRA programs.

General reporting categories include jobs created and/or retained (including job type and job duration) and annual energy saved. Reporting categories are also identified for specific activities. For example, renewable energy projects must report the number and size of solar energy systems installed, the number and size of wind energy systems installed and the number and size of other renewable energy systems installed. Building retrofit projects must track and report the number of buildings retrofitted (by sector), the square footage of buildings retrofitted, and so on. Reports are to be issued to DOE on both a quarterly and an annual basis. All metrics will be verified by the NSOE prior to reporting.

For planning purposes, the projected estimates shown in this and other NSOE SEP ARRA application documents for annual energy savings and jobs created and/or retained were created utilizing federal guidelines. Job estimates were created utilizing the DOE formula which estimates one job for each \$92,000 spent. Energy savings estimates were created utilizing the ARRA SEP goal of 10 million source British Thermal Units (10 MBtu) per \$1,000 spent. Actual energy savings and jobs created and/or retained will be calculated and reported once the DOE approved programs, projects and activities have begun.

Per DOE requirements, all Nevada SEP ARRA Formula Grant funds must be committed within eighteen (18) months of the effective date of the award, and all funds must be expended within thirty-six (36) months of the effective date. All proposed funding amounts shown reflect a three year total. The Nevada SEP ARRA program start date is 4/29/2009. The end date is projected to be 4/30/2012. An application was submitted to DOE on 5/12/2009 and amended on 7/8/2009. DOE review is expected to take 60-90 days.

Upon DOE approval, Nevada SEP can commence program activities. Requests for proposals will be issued and programs will be initiated on a rolling basis following DOE and the Nevada Legislature Interim Finance Committee approval. To minimize soft cost additions from cooperating and partner state agencies the NSOE will, wherever possible, create public-private partnerships, working groups and advisory committees to assist with program elements. Community organizations, industry associations and other public and non-profit entities will be engaged in the process whenever possible. To provide program transparency and to engage the public, the NSOE will create and maintain an ARRA dedicated web site.

All projects and programs will conform to the following ARRA priorities, use of funds, purposes, strategic directions, goals and objectives:

## **Priorities**

- The expansion of existing programs, approved by the State or the appropriate regulatory authority, to support renewable energy projects and deployment activities, including programs operated by entities which have the authority and capability to manage and distribute grants, loans, performance incentives, and other forms of financial assistance.
- The expansion of existing programs, approved by the State or the appropriate regulatory authority, to support renewable energy projects and deployment activities, including programs operated by entities which have the authority and capability to manage and distribute grants, loans, performance incentives, and other forms of financial assistance.
- Cooperation and joint activities between States to advance more efficient and effective use of this funding to support the ARRA priorities.

## **Priority Use of Funds**

- Establishment and enforcement of energy efficient building codes and standards, and implementation of voluntary programs that impact new design
- Loans, grants and incentives for energy efficiency and renewable energy measures
- Building retrofits
- Traffic signal synchronization and replacement with LEDs
- Industrial retrofits

## **Purpose**

- Stimulating the creation or increased retention of jobs
- Saving energy
- Increasing energy generation from renewable sources
- Reducing greenhouse gas emissions

## **Goals**

- Increase energy efficiency to reduce energy costs and consumption for consumers, businesses and government
- 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

## **Objectives**

- Transform energy markets to accelerate near-term deployment of energy efficiency and renewable technologies

- Promote an integrated portfolio of energy efficiency and renewable energy solutions to meet Nevada’s energy security, economic vitality and environmental quality objectives
- Strengthen core state energy programs to develop and adopt leading market transformation

### **Strategic Direction**

- Target strategic market intervention that can cause permanent structural change
- Identify opportunities for better integration of SEP and state energy initiatives to other EERE technology deployment and market transformation activities
- Replicate state innovation and best practices
- Promote collaboration across public and private agencies
- Foster regional cooperation among state and Federal agencies
- Improve the way we measure program performance and communicate success

All information in this document is subject to DOE approval and subject to change by DOE or NSOE.

# Buildings

## Energy Efficiency and Renewable Energy for State Buildings

### Budget

\$ 7,945,000 including Program and Administration Costs

### Goal

To help meet DOE's goal of reducing per capita energy consumption by 25% of the state's 1990 per capita energy use by 2012, and the state of Nevada's goal of reducing grid-based electricity consumption of state owned buildings by 20% by 2015, by increasing renewable energy generation and reducing the energy consumption of state owned buildings.

### Objective

Provide funding to retrofit inefficient state buildings with certain energy efficiency technologies and to provide funds for the installation of renewable energy systems.

### Potential Partners

- State Buildings and Grounds
- State Public Works Board
- State Purchasing Division
- Nevada electric and gas utilities serving state buildings

### Potential Sub-recipients

- Manufacturers, contractors, product suppliers and state agencies via inter-local agreements and/or competitive bid processes

### Program Description

This program creates a partnership between the NSOE, State Buildings and Grounds, State Public Works Board, utilities and other agencies. The program will utilize LED lighting, lighting control, window performance and renewable energy technologies to reduce energy costs and energy consumption and renewable energy systems to generate electricity and reduce consumption of grid-based electricity. The program is founded on the lead-by-example principle. The program will communicate leadership and best practices through partnerships and a public education campaign.

Technologies considered for funding include but are not limited to: 1) LED lighting and lighting controls; 2) window performance technologies; and 3) renewable energy systems which either

generate electricity or reduce energy use. Projects should strive to meet ARRA SEP goals of an annual energy savings of at least 10 MBtu for each \$1,000 of total investment.

Among other things, retrofitting state buildings in this manner will:

- Result in long term sustainable energy savings
- Allow for matching programs through local utilities to leverage funds
- Be measurable for reporting and audit purposes
- Quickly result in increased employment for local contractors and crews throughout the state
- Require the purchase of large amounts of materials (lighting, window performance technologies, renewable energy system components, etc.) which will enhance rejuvenation of the economy

## **Program Plan**

### Background

During Fiscal Year 2008, Nevada’s state buildings consumed 253,326,430 kWh of electricity at a cost of \$25,058,666.39. In anticipation of the ARRA SEP program the state Buildings and Grounds and Public Works Board submitted the following inventory of state owned buildings to the NSOE.

Department	Count	Area sf
Administration	225	2,312,882
Agriculture	7	26,886
Conservation & Natural Resources	987	639,087
Corrections	367	3,421,444
Cultural Affairs	47	366,585
Employment, Training	9	146,573
Health & Human Services	204	1,191,439
Information Services	2	23,408
Legislature	5	386,928
Military	87	783,950
Miscellaneous	1	20,000
Motor Vehicles	1	838
Nevada System of Higher Education	380	10,735,515
Public Safety	11	122,733
Transportation	410	1,212,857
Office of Veterans	17	101,145
Wild Life	188	320,032
Total	2,949	21,826,492

## Implementation

The program will be implemented in a series of steps.

1. To initiate the program, cabinet members, representatives of the Nevada System of Higher Education, the Legislative Counsel Bureau, and the Office of Veterans who occupy and/or operate state owned buildings will receive a request from the NSOE to identify their most inefficient buildings.
2. The NSOE will then evaluate the proposals—in consultation with the state’s utilities, State Buildings and Grounds, State Purchasing, and the State Public Works Board, to determine and prioritize a list of buildings and projects to include in the program.
3. a) Following the evaluation, the NSOE will hold meetings with the applicants to discuss the priorities.  
b) To engage the public and provide them with an opportunity to comment, the NSOE will hold a webinar meeting using the NSOE’s ARRA dedicated web site.
4. Building owners will be notified of the final decisions.
5. Competitive bids, inter-agency transfers and other purchasing mechanisms will then be issued to initiate the projects.
6. The NSOE will inform the public by posting project description and awardees on the NSOE’s ARRA web site
7. Projects will be initiated.
8. Project managers will begin quarterly project reports. Building managers will be required to use EPA ENERGYSTAR Portfolio Manager to track their energy use before and after the installation of any LED lighting, window performance or renewable energy system.
9. The NSOE will conduct mid-project physical reviews.
10. Upon completion of the project, NSOE will verify all metrics, milestones and energy savings.

## Outreach

All projects will be tracked on the NSOE’s ARRA web site. Photographs of work in progress will be posted and the public will be invited to monitor the process online and learn about energy efficiency and renewable energy. As each project is completed the agency owning the building will hold a public ceremony to rededicate the building to a new life of energy efficient public service.

To maximize reach, each state agency will be encouraged to post a similar page on their web sites.

## Timeline

August 2009 – February 2010	Complete steps 1 - 4
February 2010 – May 2010	Complete step 5-6
May 2010	Initiate step 7
September 2010	Begin step 8
Mid-Project	Conduct step 9
No later than January 2012	Complete project, conduct step 10

## Milestones

1. Issue request for information
2. Evaluate and prioritize responses
3. Conducts applicant meetings
4. Notify project awardees
5. Issue funds
6. Notify the public by posting on the NSOE's ARRA website
7. Initiated projects
8. Begin project quarterly report
9. Conduct mid-project physical reviews
10. Complete projects and verify metrics

**Estimated Annual Energy Savings:** 50, 000 MBtu

### **Estimated Job Metrics**

Jobs Created: 50

Jobs Retained: 25

Total Jobs: 75

### **Estimated Specific Metrics**

Number of building retrofitted: 15-17

Square footage of buildings retrofitted: 1,000,000

Number and size of renewable energy systems installed: 3, 70-100 kW

## **Energy Efficiency and Renewable Energy for Schools**

### **Budget**

\$ 8,522,500 including Program and Administration Costs

### **Goal**

To help meet DOE's goal of reducing per capita energy consumption by 25% of the state's 1990 per capita energy use by 2012 and the state of Nevada's goal of meeting its renewable portfolio standards (RPS) (25% by 2025, of which 25% can come from energy efficiency measurements) by increasing renewable energy generation and reducing the energy consumption of the state's K-12 school buildings.

### **Objective**

Provide funds to implement energy efficiency and renewable energy system programs in the state's 17 school districts.

### **Potential Partners**

- Nevada Department of Education
- State Purchasing Office
- Nevada's school districts
- Nevada's utilities

### **Potential Sub-recipients**

- Nevada's utilities
- Nevada's schools
- Manufacturers, contractors and/or product suppliers via competitive bid processes

### **Program Description**

This program creates a partnership between the NSOE, the state's K-12 schools and utilities to implement energy efficiency and renewable energy projects. Projects should strive to meet ARRA SEP goals of an annual energy savings of at least 10 MBtu for each \$1,000 of total investment. The program will communicate leadership and best practices through partnerships and a public education campaign.

Among other things, retrofitting schools in this manner will:

- Result in long term sustainable energy savings
- Allow for matching programs through local utilities to leverage funds
- Be measurable for reporting and audit purposes
- Quickly result in increased employment for local contractors and crews throughout the state

- Require the purchase of large amounts of materials which will enhance rejuvenation of the economy

## **Program Plan**

### Background

Nevada has several utility-supported best practice programs for helping schools reduce energy costs which could be supported under this program, or could serve as models for projects in other utility service territories. For example, NV Energy, the state's largest utility and only investor-owned, regulated utility, manages the Renewable Generations program which installs solar photovoltaic and wind projects on schools throughout the utilities service territory.

NV Energy also supports Desert Research Institute's GreenPower program. This program installs solar panels and wind turbines on selected GreenPower schools. The program provides not only a cost savings to the school but a hands-on experience to the students as well.

In terms of energy efficiency for schools, the most successful program is NV Energy's Sure Bet for Schools. This program helps school districts reduce energy consumption, improve learning environments, and save money by implementing energy efficiency improvements. Typical projects include energy efficient lighting and sensors, vending machine sensors, heating and air conditioning upgrades, energy management systems, window film, premium efficiency motors, set-back thermostats, PC power management, T5/super T8 gym lighting and custom applications.

This funding will allow NSOE to work with NV Energy and other utility companies (Cooperatives, General Improvement Districts, Municipal, Water Districts, and Natural Gas Utilities) and School Districts to implement similar energy efficiency and renewable energy programs.

### Implementation

The program will be implemented in a series of steps.

1. School districts will receive a request from the NSOE to identify their most inefficient buildings.
2. The NSOE will evaluate the proposals—in consultation with the state's utilities and the Nevada Department of Education—to determine and prioritize a list of buildings and projects to be retrofitted.
3. a) The NSOE will hold meetings with the applicants to discuss the priorities.  
b) To engage the public and provide them with an opportunity to comment, the NSOE will hold a webinar meeting using the NSOE's ARRA dedicated web site.
4. Districts will be notified of the final decisions.
5. Competitive bids and other purchasing mechanisms will be issued to initiate the projects.
6. The NSOE will inform the public by posting project description and awardees on the NSOE's ARRA web site
7. Projects will be initiated.

8. Project managers will begin quarterly project reports. Building managers will be required to use ENERGYSTAR Portfolio Manager to track their energy use before and after the installation of any lighting, window performance or renewable energy system.
9. The NSOE will conduct mid-project physical reviews.
10. Upon completion of the project, NSOE will verify all metrics, milestones and energy savings.

Outreach

All projects will be tracked on the NSOE’s ARRA web site. Photographs of work in progress will be posted and the public will be invited to monitor the process online and learn about energy efficiency and renewable energy. As each project is completed the district owning the building will be encouraged to hold a public ceremony to rededicate the school.

To maximize reach, each district will be encouraged to post a similar page on their web sites.

Timeline

October 2009 – April 2010	Complete steps 1 - 4
May 2010 – June 2010	Complete step 5-6
July 2010	Initiate step 7
November 2010	Begin step 8
Mid-Project	Conduct step 9
No later than January 2012	Complete project, conduct step 10

Milestones

- 1) Issue request for information
- 2) Evaluate and prioritize responses
- 3) Conducts applicant meetings
- 4) Notify project awardees
- 5) Issue funds
- 6) Inform the public by posting on NSOE ARRA website
- 7) Initiated projects
- 8) Begin project quarterly report
- 9) Conduct mid-project physical reviews
- 10) Complete projects, verify metrics

**Estimated Annual Energy Savings:** 50,000 MBtu

**Estimated Job Metrics**

Jobs Created: 50

Jobs Retained: 25

Total Jobs: 75

### **Estimated Specific Metrics**

Number of school building retrofitted: 17

Square footage of buildings retrofitted: 1,500,000

Number and size of renewable energy systems installed: 4, 80 kW

## **Transportation**

### **Energy Efficient Traffic Signals and Street Lights**

#### **Budget**

\$1,702,500 including Program and Administration Costs

#### **Goal**

To save energy, increase transportation energy efficiency, and to reduce the number of traffic-related deaths in the state.

#### **Objective**

Provide funding for the replacement of inefficient traffic signals and/or street lights to significantly reduce energy consumption and improve safety through greater visibility

#### **Potential Partners**

- Nevada Department of Transportation
- Regional Transportation Commissions
- Nevada Department of Public Safety

#### **Potential Sub-recipients**

- Manufacturers, contractors, product suppliers and local and state agencies via inter-local agreements and/or competitive bid processes

#### **Program Description**

This program creates a partnership between the NSOE, the Nevada Department of Transportation, Regional Transportation Commissions and the Nevada Department of Public Safety. The program will provide funds to install energy-efficient LED traffic signals and/or street lights throughout the state, giving priority to high accident rate intersections.

#### **Program Plan**

##### Implementation

The program will be implemented in a series of steps.

1. The NSOE in coordination with the Department of Transportation will request information from Regional Transportation Commissions on intersections with traffic signals and/or street lights that are energy inefficient and which – if better illuminated – would reduce traffic accidents

2. The NSOE will evaluate the lists in consultation with the Department of Public Safety and state's utilities to determine and prioritize a list of intersections and streets to be include in the program
3. The NSOE will hold a public meeting, or meetings, with the Department of Transportation and Regional Transportation Commissions
4. The awardees will be notified of the final decisions
5. Competitive bids, inter-agency transfers and other purchasing mechanisms will be issued to initiate the projects
6. The NSOE will inform the public by posting project description and awardees on the NSOE's ARRA web site
7. Projects will be initiated
8. Project managers will begin quarterly reports
9. Mid-project physical reviews will be held
10. Complete projects, conduct final project verification and site monitoring visit (selected projects)

### Outreach

All projects will be tracked on the NSOE's new ARRA web site. Photographs of work in progress will be posted and the public will be invited to monitor the process online and learn about energy efficiency and traffic signals and street lights. As each project is completed a public ceremony will be held to celebrate the lives that will be saved by the new energy efficient traffic signals and street lights.

### Timeline

October 2009 – April 2010	Complete steps 1 - 3
May 2010 – June 2010	Complete step 4 -6
July 2010	Initiate step 7
October 2010	Begin step 8
Mid-Project	Conduct step 9
No later than January 2012	Complete project, conduct step 10

### Milestones

- 1) Issue information requests
- 2) Evaluate responses
- 3) Hold respondent meetings
- 4) Notify respondents of final decisions
- 5) Issue funds
- 6) Inform the public by posting on NSOE ARRA website
- 7) Initiate projects
- 8) Begin quarterly reports
- 9) Conduct mid-project physical reviews
- 10) Complete projects and verify metrics

**Estimated Annual Energy Savings:** 10,000 MBtu

**Estimated Job Metrics**

Jobs Created: 9

Jobs Retained: 3

Total Jobs: 12

**Estimated Specific Metrics**

Number of LED traffic signals installed, number of LED street lights installed: 10,000/750

## **Alternative Fuel Fueling Infrastructure**

### **Budget**

\$170,250 including Program and Administration Costs

### **Goal**

To establish a fueling infrastructure for the Nevada State Motor Pool for the use of ethanol based fuels (E85) for state vehicles.

### **Objective**

The project will remove an existing gasoline tank at the Nevada State Motor pool in Las Vegas and replace it with a divided tank which will accommodate both gasoline and E 85 fuels for use in State vehicles operating in Las Vegas. This will serve as an example for others as to the effectiveness and viability of E 85 as a motor vehicle fuel.

### **Potential Partners**

- Nevada State Motor Pool

### **Potential Sub-recipients**

- Nevada State Motor Pool

### **Program Description**

This program creates a partnership between the NSOE and the Nevada State Motor Pool. The program will provide funds to install a divided fuel tank which will permit the continued use of gasoline as a motor fuel as well as add E 85 Ethanol as an additional fuel option for the many flex fuel vehicles currently in the State fleet. It will also make the acquisition of flex fuel vehicles more attractive in current and future purchasing cycles.

### **Program Plan**

#### Implementation

The program will be implemented in a series of steps.

1. The NSOE will request information from the State Motor Pool on the necessary actions to replace the existing gasoline tank with the divided fuel tank.
2. Inter-agency agreements and other purchasing mechanisms will be issued to initiate the project.
3. Project will be initiated

4. Project managers will begin project quarterly reports
5. Mid-project physical reviews will held
6. Projects will be completed, project metrics will be verified by the NSOE

Outreach

All projects will be tracked on the NSOE’s new ARRA web site. Photographs of work in progress will be posted and the public will be invited to monitor the process online and learn about alternative transportation.

Timeline

October 2009 – April 2010	Complete steps 1 - 2
May 2010 – June 2010	Complete step 3
July 2010	Initiate step 4
November 2010	Begin step 5
Mid-Project	Conduct step 6
No later than January 2012	Complete project, conduct step 7

Milestones

1. Issue information requests
2. Enter into interagency agreement on project
3. Issue funds
4. Initiate project
5. Begin quarterly reports
6. Conduct mid-project physical reviews
7. Complete projects

**Estimated Annual Energy Savings:** 1,500 MBtu

**Estimated Job Metrics**

Jobs Created: 1

Jobs Retained: 1

Total Jobs: 2

**Estimated Specific Metrics**

Number of tanks installed: 1

# Electric Power and Renewable Energy

## Renewable Energy and Energy Efficiency Revolving Loan Program

### Budget

\$ 9,348,100 including Program and Administration Costs

### Goal

To create a sustainable program to help Nevada meet its renewable portfolio standard goals, promote energy independence, protect the state's fragile high desert environment, reduce water consumption and create jobs by promoting commercial distributed energy generation, community-scale, utility-scale grid-based renewable energy generation, energy efficiency/energy conservation projects, and energy saving performance contracting throughout the state.

### Objective

Provide low-interest loans a) to industry for renewable energy system manufacturing, b) to renewable energy developers for the installation of renewable energy projects, and c) enterprises involved in energy efficiency and energy conservation improvements.

### Potential Partners

- Nevada Energy Commissioner
- Financial Institutions
- USDA

### Potential Sub-recipients

- To be determined via competitive RFP

### Program Description

This program provides revolving loans for community-scale and utility-scale renewable energy projects and enterprises involved in energy efficiency and energy conservation improvements. Loans will be at 3% interest. Loans will be competitive and awarded via an RFP process.

Among other things, a revolving loan program will:

- Create a sustainable program that will provide loans for years to come
- Provide much needed assistance for shovel-ready projects
- Allow for matching programs to leverage funds
- Be measurable for reporting and audit purposes
- Quickly result in increased employment for local contractors and crews throughout the state

- Require the purchase of renewable energy and or energy efficiency systems which will enhance rejuvenation of the economy

## **Program Plan**

### Background

As per Section 4.0 Program Priorities of DE-FOA-0000052 (p 23), the states are encouraged to create revolving loans to support continuity of the program beyond the 36 month of the ARRA program. Hence, Nevada State Office of Energy has worked with the Governor and the Legislators to obtain the authority for the establishment of a revolving loan fund (AB 522 of 2009).

### Implementation

The program will be implemented in a series of steps.

1. The NSOE will, in consultation with the Nevada Energy Commissioner, develop the revolving loan criteria.
2. The NSOE will, in consultation with the Nevada Energy Commissioner, develop a request (or requests) for proposal for renewable energy projects that meet the loan program criteria
3. a) The NSOE will evaluate the proposals, in consultation with the Nevada Energy Commissioner, third-party professional qualified to conduct project due diligence, and/or the USDA  
b) To engage the public and provide them with an opportunity to comment, the NSOE will hold a webinar meeting using the NSOE's ARRA dedicated web site.
4. RFP awardees will be notified of the final decisions
5. Loans will be granted
6. The NSOE will inform the public by posting project description and awardees on the NSOE's ARRA web site
7. Projects will be initiated
8. Project managers will begin project quarterly reports
9. Mid-project physical reviews will be conducted
10. Projects will be completed, metrics will be verified

### Timeline

August 2009 – February 2010	Complete steps 1 - 5
February 2010 – May 2010	Complete step 6
May 2010	Initiate step 7
September 2010	Begin step 8
Mid-Project	Conduct step 9
No later than January 2012	Complete project, conduct step 10

## Outreach

All projects will be tracked on the NSOE's new ARRA web site. Photographs of work in progress will be posted and stakeholders and the public will be invited to monitor the process online and learn about renewable energy generation. As each project is completed a public ceremony will be held to switch on the power for the new renewable energy system or the energy efficient system.

To maximize reach, the project developer, project owner, financial partner, will be encouraged to post a similar page on their web sites. In addition, all contractors and product manufacturers will also be encouraged to post their pages.

## Milestones

- 1) Complete loan criteria
- 2) Complete and issue RFP(s)
- 3) Evaluation of proposals
- 4) RFP awardees are notified of the final decisions
- 5) Loans are issued
- 6) Inform the public by posting on NSOE ARRA website
- 7) Projects are initiated
- 8) Project managers begin quarterly reports
- 9) Mid-project physical reviews are conducted
- 10) Projects are completed and metrics are verified

**Estimated Annual Energy Savings:** 80,000 MBtu

### **Estimated Job Metrics**

Jobs Created: 58

Jobs Retained: 29

Total Jobs: 87

### **Estimated Specific Metrics**

Number of loans: 5

Monetary value of loans: 8,000,000

## **Policy, Planning and Energy Security**

### **Engineering, Feasibility, Permitting, Environmental Impact Studies and Project Implementation**

#### **Budget**

\$ 5,675,000 including Program and Administration Costs

#### **Goal**

To promote the development of the state's rich renewable energy resources in order to meet the state's 25% by 2025 Renewable Energy Portfolio and any existing and/or new federal portfolio standards.

#### **Objective**

Provide grants for conducting engineering, feasibility, permitting and environmental impact studies for renewable energy generation and/or transmission project planning.

#### **Potential Partners**

- Nevada Energy Commissioner
- Agricultural Groups
- USDA
- State utilities
- Federal and State Land Management Agencies

#### **Potential Sub-recipients**

- To be determined via competitive RFP

#### **Program Description**

The program creates a partnership between the NSOE, the Nevada Energy Commissioner, and other entities to help fund engineering, feasibility, permitting and environmental impact studies and for project implementation. Grants will be competitive and awarded via an RFP process.

Among other things, this grant program will:

- Provide much needed assistance for stalled projects
- Allow for matching programs to leverage funds
- Be measurable for reporting and audit purposes
- Quickly result in increased employment for local contractors and crews throughout the state

- Require the purchase of large amounts of materials which will enhance rejuvenation of the economy

## **Program Plan**

### Background

Nevada has no shortage of projects in the pipeline. The Bureau of Land Management currently has 6 wind projects, 32 “very active” solar applications and 370 geothermal leases in the pipeline. Nye County alone has over 250 square miles of land tied up in the permitting process. Lincoln and White Pine Counties are attempting to deal with almost a dozen wind projects while Washoe County, Storey County and Carson City are also struggling with how to process the renewable energy projects in their jurisdictions.

In addition, NV Energy (investor owned utility) has just filed an integrated resource plan with the Public Utilities Commission that includes the construction of a 500kV transmission line and has submitted a statement of interest to the Western Area Power Administration for two lines to help get renewable energy resources out of Nevada’s renewable energy zones. The plan also includes two power purchase agreements for two solar projects, continued development of a wind and a solar projects and construction of three utility-scale solar photovoltaic facilities.

In addition, the Governor’s Renewable Energy Transmission Access Advisory Committee (RETAAC) has just completed its second report. The report identified six geothermal zones, four solar zones, twelve wind zones, and four biomass zones and the 14 transmission lines necessary to get the electricity from projects within these zones to internal and external markets. To date all RETAAC activity has been conducted on a voluntary basis; however, to move forward, some level of funding will be required.

These grants will also be available to consumer owned utilities, municipal utilities, general improvement districts, water districts, and agricultural groups.

### Implementation

The program will be implemented in a series of steps.

1. The NSOE will, in consultation with the Nevada Energy Commissioner, develop the RFP criteria.
2. The NSOE will develop a request (or requests) for proposal for projects that meet the criteria
3. a) The NSOE will evaluate the proposals, in consultation with the Nevada Energy Commissioner, or other related stake-holders  
b) To engage the public and provide them with an opportunity to comment, the NSOE will hold a webinar meeting using the NSOE’s ARRA dedicated web site.
4. RFP awardees will be notified of the final decisions
5. Grants will be awarded

6. The NSOE will inform the public by posting project description and awardees on the NSOE's ARRA web site
7. Projects will be initiated
8. Project managers will begin quarterly reports
9. Mid-project physical reviews will be conducted
10. Projects will be completed and metrics verified

Timeline

August 2009 – February 2010	Complete steps 1 - 4
February 2010 – May 2010	Complete step 5-6
May 2010	Initiate step 7
September 2010	Begin step 8
Mid-Project	Conduct step 9
No later than January 2012	Complete project, conduct step 10

Milestones

- 1) Complete RFP(s) criteria
- 2) Develop RFP
- 3) Evaluate proposals
- 4) Notify awardees
- 5) Issue grants
- 6) Inform the public by posting on NSOE ARRA website
- 7) Projects are initiated
- 8) Project managers begin quarterly reports
- 9) Mid-project physical reviews are conducted
- 10) Projects are completed and metrics verified

**Estimated Annual Energy Savings:** 50,000 MBtu

**Estimated Job Metrics**

Jobs Created: 36

Jobs Retained: 18

Total Jobs: 54

**Estimated Specific Metrics**

Number of renewable energy and/or transmission feasibility study, EIS, and permitting conducted: 3

Number of renewable energy systems installed: 5

## **Building Codes**

### **Budget**

\$1,350,650 including Program and Administration Costs

### **Goal**

To comply with ARRA's requirements to implement the adoption of the 2009 residential and commercial IECC codes.

### **Objective**

Provide funding for the adoption of codes and regulations and for the development and implementation of training programs for building code officials, builders, engineers and architects in Nevada.

### **Potential Partners**

- Nevada Energy Commissioner
- Building and construction associations
- Nevada's city and county planners and code officials
- Nevada Utilities

### **Potential Sub-recipients**

- Nevada Renewable Energy and Energy Efficiency Authority through an inter-local agreement

### **Program Description**

This program provides funding for the adoption and implementation of the 2009 residential and commercial IECC codes.

### **Program Plan**

#### Background

The NSOE is very familiar with the process for adopting energy codes; in fact, the office recently finished the regulatory process for the statewide adoption of the IECC 2006 energy code and also introduced a bill (SB 73) to the 2009 Nevada Legislators to streamline the adoption and implementation of IECC.

This program will fund the Renewable Energy and Energy Efficiency Authority (REEEA) pursuant to AB 522, and the adoption of 2009 IECC by the Nevada Energy Commissioner.

## Implementation

The NSOE will initiate an inter-agency transfer of the funds via inter-local agreement to the REEEA. The REEEA will employ necessary staff and consultants to conduct workshops and training programs for local building officials. These activities will involve Nevada's Building Associations, Architecture Associations, other building trade organizations and associations, and the NSOE. These workshops and training programs will continue to provide IECC code awareness and 2009 IECC adoption assistance.

## Timeline

September 2009 – November 2009	Complete step 1
November 2009 – November 2010	Complete step 2
November 2009 – January 2012	Initiate step 3
November 2009 – March 2012	Begin step 4
January 2010	Begin step 5

## Milestones

This program will involve following steps

1. NSOE will sign an inter-local agreement with the REEEA.
2. REEEA will adopt any necessary regulations
3. REEEA will develop a series of workshops to assist the jurisdictions with the code training and implementation of ARRA 90% compliance requirement within 8 years
4. REEEA will develop reporting plan for compliance verification
5. REEEA and NSOE will begin quarterly reporting

**Estimated Annual Energy Savings:** NA

## **Estimated Job Metrics**

Jobs Created: 2

Jobs Retained: 10

Total Jobs: 12

## **Estimated Specific Metrics**

- Name of new code adopted: 2009 residential and commercial IECC
- Name of old code replaced: 2003
- Number of new and existing buildings covered by new code: To Be Determined