

# STATE PLAN/MASTER FILE WORKSHEET

## Description of State Energy Goals to be Achieved

The State of New Jersey intends to use State Energy Program funds allocated under the American Recovery and Reinvestment Act (ARRA) of 2009 to provide financial assistance for energy efficiency and renewable energy using established program designs dedicated to segments of the public that have been unable or less able to access such assistance through existing State programs that are run mainly through the Office of Clean Energy of the Board of Public Utilities. This approach will achieve simultaneously the goals of the ARRA and those of Governor Jon Corzine's Energy Master Plan (EMP), which was released Oct. 22, 2008.

The EMP goals are:

1. Maximize the State's energy conservation and energy efficiency to achieve reductions in energy consumption of at least 20% by 2020.
2. Reduce peak demand for electricity by 5,700 MW by 2020.
3. Strive to exceed the current State's Renewable Portfolio Standard and meet 30% of the State's electricity needs from renewable sources by 2020.
4. Develop a 21st century energy infrastructure.
5. Invest in innovative clean energy technologies and businesses to stimulate the industry's growth in New Jersey.

The EMP complements and refines goals that guided New Jersey's Clean Energy Program (the designated State Energy Program) since its inception in 2001. The Clean Energy Program was established pursuant to the 1999 NJ Electric Discount and Energy Competition Act (EDECA). This Act requires the Clean Energy Program to:

Reduce market barriers and transform the energy market;  
Produce environmental benefits over and above those of existing standard offer programs  
Make energy services more affordable for low-income customers; and  
Eliminate subsidies for programs that can be delivered into the market without Societal Benefits Charge (SBC) funding. (The SBC is assessed on all ratepayers of the publicly owned electric and natural gas utilities in the State of New Jersey.)

## Selection of State Goals

The goals for the Clean Energy Program are to advance and promote the implementation of Energy Efficiency and Renewable Energy for both electric and natural gas and to assist in achieving the Governor's EMP goals which will assist in reducing greenhouse emissions to 1990 levels by 2020 as required by the Global Warming Response Act.

## Measuring Achievements

Protocols have been developed to measure resource savings, including electric energy capacity, natural gas, and other resource savings, and to measure electric energy and capacity from renewable energy and distributed generation systems. Specific protocols for the determination of the resource savings or generation from each program are listed on the Clean Energy Program website [www.njcleanenergy.com](http://www.njcleanenergy.com) for each eligible measure and technology. These protocols use measured and customer data as input values in industry-accepted algorithms.

The data and input values for the algorithms come from the program application forms or from standard values. The standard input values are based on the best available measured or industry data applicable for the New Jersey programs. The standard values for most commercial and industrial (C&I) measures are supported by end use metering for key parameters for a sample of facilities and circuits, based on the metered data from past programs. The C&I standard values are based on five years of data for most measures and two years of data for lighting. Some electric and gas input values were derived from a review of literature from various industry organizations, equipment manufacturers, and suppliers. These input values are updated to reflect changes in code, federal standards and recent program evaluations.

These protocols were developed for the purpose of determining energy and resource savings for technologies and measures supported by New Jersey's Clean Energy Program. The protocols will be updated from time to time to

reflect the addition of new programs, modifications to existing programs, and the results of future program evaluations. The protocols will be used consistently statewide to assess program impacts and calculate energy and resource savings to:

1. Report on program performance;
2. Provide inputs for planning and cost-effectiveness calculations;
3. Calculate lost margin revenue recovery;
4. Provide information to regulators and program administrators for determining eligibility for administrative performance incentives; and
5. Assess the environmental benefits of program implementation

Resource savings to be measured include electric energy (kWh) and capacity (kW) savings, natural gas savings (therms), and savings of other resources (oil, propane, water, and maintenance), where applicable. In turn, these resource savings will be used to determine avoided environmental emissions. The protocols are also utilized to support preliminary estimates of the electric energy and capacity from renewable energy and distributed generation systems and the associated environmental benefits.

### **State Strategy**

Our Energy Master Plan emphasizes conservation as a primary strategy to meet New Jersey's future energy needs because it strikes an effective balance among competing social, economic and environmental concerns. By investing in efficient equipment energy uses can accomplish the same work with less energy reducing both business costs and dependence on energy supply.

These goals will also be increased as we meet the energy efficiency activities under the Energy Efficiency Conservation Block Grant (EECBG), as described in Section 542 of Title V, Subtitle E of EISA (PL 110-140). That programs purpose is as follows:

The purpose of the program is to assist eligible entities in implementing strategies to:

- A. reduce fossil fuel emissions created as a result of activities within the jurisdictions of eligible entities in a manner that -
  - is environmentally sustainable; and
  - to the maximum extent practicable, maximizes benefits for local and regional communities;
- B. reduce the total energy use of the eligible entities; and
- C. improve energy efficiency in the transportation sector; the building sector; and other appropriate sectors.

The Board of Public Utilities worked with the Northeast Energy Efficiency Partnerships (NEEP) to identify how best to provide the energy efficiency program to achieve the goals that have been set for the EMP. In summary, the energy efficiency (EE) and renewable energy (RE) EMP goals are:

1. to reduce projected electricity consumption 20% by 2020; and
2. to produce 30 % of electricity demand from renewable resources by 2020.

The Clean Energy Program (CEP) 2009-2012 funding levels must also be coordinated with those energy savings measures in the EMP that it does not directly fund, including the majority of combined heat and power and demand response. The EMP goals for these initiatives are as follows:

1. 2200 MW of demand response (DR), and
2. 1500 MW of combined heat and power (CHP)

The major objective for the CEP 2009-2012 funding levels is to assist New Jersey customers in achieving the EMP goals in the most efficient and effective manner. This 4-year funding level is designed in part to begin to implement the EMP goals to reduce energy use and demand, increase clean energy generation, reduce the environmental impacts of energy generation and use, increase energy related jobs, and lower energy costs.

The State Energy Program – ARRA Plan contains programs which are designed to further State and Federal energy conservation and efficiency goals. This Plan as proposed attempts to utilize the funds primarily to address some of the gaps that the CEP cannot address, to support current energy efficiency and renewable energy projects but also to seed sustainable programs and put in place long-term funding mechanisms, such as revolving

financing and energy savings performance contracting that will provide lasting benefits and lead to long-term market transformation.

### **25% improvement in energy efficiency by 2012**

- The goals to be achieved with the use of State Energy Program – ARRA Funds are in accordance with Public Law 111-5. The State’s Energy Master Plan when fully implemented is expected to achieve the main goal to reduce projected energy use by 20% by 2020 and meet 30% of the State’s electricity needs with from renewable energy sources by 2020. The economic impact of achieving this goal is part of the analysis included in the Energy Master Plan. The goals will also be supported through the activities when undertaken with the Energy Efficiency Conservation Block Grant Funds.

### **Mandatory Activities**

- Mandatory Lighting Efficiency Standards - BPU Staff has worked with NJ Utilities/State Organizations in the promotion of efficient lighting programs.
- Ridesharing/Mass Transit - BPU Staff has encouraged the establishment of incentives to foster the use of carpools and other forms of transportation that are more efficient than single occupant vehicles.
- Procurement - BPU Staff has improved industrial energy efficiency and productivity as well as improve energy efficiency in state and local government buildings.
- Building Standards – New Jersey has adopted the 2006 International Energy Code with amendments.
- Right Turn On Red/Left Turn On Red - BPU Staff worked with NJ Department of Transportation in decreasing unnecessary gasoline consumption in the state.
- BPU staff coordinates activities among local, State, and Federal energy efficiency, renewable energy and alternative transportation fuel programs within the State. Such agencies where coordination exists are; NJ Dept of Education, NJ Dept of Environmental Protection, State Universities, local municipalities and Environmental Protection and Department of Energy (EnergyStar products).

### **Environmental Impact**

- The State does not expect any adverse environmental impacts to result from implementation of this Plan.

### **Supplementing Weatherization (10 CFR 420.13.b.6)**

- The Department of Community Affairs administers the Weatherization Program. We do not supplement this program.

### **Supplementing State/Local Funds**

- Adequate procedures are in place to ensure that funds for the State Energy Program –ARRA Plan will be used in accordance with all rules and regulations

### **Compliance with Laws and Regulations**

- New Jersey will comply with all applicable statutes and regulations.

## **Energy Emergency Plan**

- In accordance with Public Law 94-163 we submitted a copy of New Jersey's Energy Emergency Plan, as requested by Department of Energy. There have been no changes to this plan.

## **Monitoring Approach**

The Board of Public Utilities Staff will require quarterly reports of both financial and programmatic activities by subgrantees. A percentage of grantees will have onsite monitoring done if we get more personnel.

(Grant Number: \_\_\_\_\_)

State Title: Energy Efficiency on State Buildings

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1. Market (choose one):

<input checked="" type="checkbox"/> Buildings	<input type="checkbox"/> Industry
<input type="checkbox"/> Electric Power and Renewable Energy	<input checked="" type="checkbox"/> Policy, Planning, and Energy Security
<input type="checkbox"/> Energy Education	<input type="checkbox"/> Transportation

2. State: New Jersey

3. Program Year: 2009 Date Start: June 17, 2009 Date End: March 31, 2012

4. Topics Involved in the Overall Program Market (choose all that apply):

<input type="checkbox"/> Agriculture	<input checked="" type="checkbox"/> Federal, state, and local facilities	<input checked="" type="checkbox"/> Procurement of efficient products **
<input type="checkbox"/> Alternative fuels	<input type="checkbox"/> Federal Energy Management Program	<input type="checkbox"/> Public information
<input type="checkbox"/> Appliance efficiency and standards	<input type="checkbox"/> Financing energy programs	<input type="checkbox"/> Rating and labeling
<input type="checkbox"/> Bioenergy and biobased products	<input type="checkbox"/> Fuel cells	<input type="checkbox"/> Rebuild America
<input type="checkbox"/> Biomass power	<input type="checkbox"/> General energy efficiency for industry	<input type="checkbox"/> Residential buildings
<input type="checkbox"/> Building America	<input type="checkbox"/> Geothermal	<input type="checkbox"/> Right turn on red **
<input type="checkbox"/> Carpools, vanpools, and ridesharing **	<input type="checkbox"/> Green power programs	<input type="checkbox"/> Schools
<input type="checkbox"/> Clean Cities	<input type="checkbox"/> Heavy vehicles and trucks	<input type="checkbox"/> Solar power
<input type="checkbox"/> Climate change planning	<input type="checkbox"/> Home energy ratings	<input checked="" type="checkbox"/> State energy strategic plans
<input type="checkbox"/> Combined heat and power	<input type="checkbox"/> Hydrogen	<input type="checkbox"/> Telecommuting
<input type="checkbox"/> Commercial buildings	<input type="checkbox"/> Hydropower	<input type="checkbox"/> Thermal **
<input type="checkbox"/> Curriculum development	<input type="checkbox"/> Industrial processing	<input type="checkbox"/> Traffic signals
<input type="checkbox"/> Demand reduction	<input type="checkbox"/> Industries of the future	<input type="checkbox"/> Transmission and infrastructure reliability
<input type="checkbox"/> Distributed energy generation	<input type="checkbox"/> Lighting **	<input type="checkbox"/> Transportation alternatives
<input checked="" type="checkbox"/> Energy and environment	<input type="checkbox"/> Low-income weatherization	<input type="checkbox"/> Waste management and recycling
<input type="checkbox"/> Energy building codes	<input type="checkbox"/> Manufacturing	<input type="checkbox"/> Water systems
<input type="checkbox"/> Energy consumption and price statistics	<input type="checkbox"/> Motors and other industrial systems	<input type="checkbox"/> Wind energy
<input type="checkbox"/> Energy emergency planning	<input type="checkbox"/> Performance contracting	
<input type="checkbox"/> ENERGY STAR	<input type="checkbox"/> Policy and energy legislation	

5. Estimated Annual Energy Savings: 62,427 MBtus

6. Description (executive summary of goals and objectives)\*

Improving the energy efficiency of State buildings. These are projects that are ready for construction once funding is received. These projects were identified by the State’s Office of Energy Savings, which is part of the Department of Treasury. Governor Corzine created this Office of Energy Savings through an Executive Order signed on April 22, 2006. This Office has been charged with reducing the State’s energy consumption, and has targeted the State’s largest energy consumers first for energy audits and energy efficiency upgrades.

Projects will be selected by the Office of Energy Savings based on the following criteria:

- The amount of annual savings in energy costs.
- The amount of annual energy reductions or energy generation.
- The number of jobs expected to be created.
- The ability to commit money to projects in a timely manner.
- The public benefit of the improvements, and of the facility that is receiving these benefits.

The funding provided to these projects will be in addition to any incentives provided through the Clean Energy Program. This will help to create jobs immediately, and supply the State with immediate energy savings.

7. Program Year Milestones\*

Milestone		Planned (Number)
1	Meet with the Office of Clean Energy	1
2	Set-up Program Procedures	1
3	Develop forms	1
4	Release Program Announcements	1
5	Review applications	3
6	Projects Identified	3
7	Prepare and Submit Quarterly Reports	4

*\*Please use additional pages if more space is needed.*

*\*\*Mandatory requirement*

8. Standard Metrics (required):\*\*

JOB METRICS	Planned
Jobs Created	66
Jobs Retained	0
TOTAL JOBS	66

9. Specific Metric Activity (required):\*\*

Metric Activity: Building retrofits

SPECIFIC METRICS	Planned
Number of state buildings retrofitted	3

10. User Specified Metrics (optional): \*

METRICS	Planned


11. Program Year Funds by Source \*

a. SEP grant (all funds in the approved budget)	Planned
	\$6,000,000
	\$
Market Budget Total	\$6,000,000
b. Leveraged funds anticipated (outside approved budget)	
	\$
	\$

*\*Please use additional pages if more space is needed.*

*\*\*Mandatory requirement*

U.S. Department of Energy  
State Energy Program (SEP) Narrative Information Worksheet

(Grant Number: \_\_\_\_\_)

State Title: Grants for State Sponsored Renewable Energy and Energy Efficiency Projects

1. Market (choose one):

<input checked="" type="checkbox"/> Buildings	<input checked="" type="checkbox"/> Industry
<input checked="" type="checkbox"/> Electric Power and Renewable Energy	<input type="checkbox"/> Policy, Planning, and Energy Security
<input checked="" type="checkbox"/> Energy Education	<input type="checkbox"/> Transportation

2. State: New Jersey

3. Program Year: 2009 Date Start: June 17, 2009 Date End: March 31, 2012

4. Topics Involved in the Overall Program Market (choose all that apply):

<input type="checkbox"/> Agriculture	<input checked="" type="checkbox"/> Federal, state, and local facilities	<input checked="" type="checkbox"/> Procurement of efficient products **
<input checked="" type="checkbox"/> Alternative fuels	<input type="checkbox"/> Federal Energy Management Program	<input type="checkbox"/> Public information
<input type="checkbox"/> Appliance efficiency and standards	<input type="checkbox"/> Financing energy programs	<input type="checkbox"/> Rating and labeling
<input type="checkbox"/> Bioenergy and biobased products	<input type="checkbox"/> Fuel cells	<input type="checkbox"/> Rebuild America
<input checked="" type="checkbox"/> Biomass power	<input type="checkbox"/> General energy efficiency for industry	<input type="checkbox"/> Residential buildings
<input type="checkbox"/> Building America	<input checked="" type="checkbox"/> Geothermal	<input type="checkbox"/> Right turn on red **
<input type="checkbox"/> Carpools, vanpools, and ridesharing **	<input type="checkbox"/> Green power programs	<input type="checkbox"/> Schools
<input type="checkbox"/> Clean Cities	<input type="checkbox"/> Heavy vehicles and trucks	<input type="checkbox"/> Solar power
<input checked="" type="checkbox"/> Climate change planning	<input type="checkbox"/> Home energy ratings	<input checked="" type="checkbox"/> State energy strategic plans
<input type="checkbox"/> Combined heat and power	<input checked="" type="checkbox"/> Hydrogen	<input type="checkbox"/> Telecommuting
<input type="checkbox"/> Commercial buildings	<input type="checkbox"/> Hydropower	<input type="checkbox"/> Thermal **
<input type="checkbox"/> Curriculum development	<input type="checkbox"/> Industrial processing	<input type="checkbox"/> Traffic signals
<input type="checkbox"/> Demand reduction	<input type="checkbox"/> Industries of the future	<input type="checkbox"/> Transmission and infrastructure reliability
<input type="checkbox"/> Distributed energy generation	<input type="checkbox"/> Lighting **	<input type="checkbox"/> Transportation alternatives
<input checked="" type="checkbox"/> Energy and environment	<input type="checkbox"/> Low-income weatherization	<input type="checkbox"/> Waste management and recycling
<input type="checkbox"/> Energy building codes	<input type="checkbox"/> Manufacturing	<input type="checkbox"/> Water systems
<input type="checkbox"/> Energy consumption and price statistics	<input type="checkbox"/> Motors and other industrial systems	<input checked="" type="checkbox"/> Wind energy
<input type="checkbox"/> Energy emergency planning	<input type="checkbox"/> Performance contracting	
<input type="checkbox"/> ENERGY STAR	<input type="checkbox"/> Policy and energy legislation	

5. Estimated Annual Energy Savings: Energy Efficiency: 305776.9 MBtus  
Renewable Energy: 4392.95 MBtus

6. Description (executive summary of goals and objectives)\*

Funds will be dedicated to support State-sponsored projects that utilize innovative technologies or innovative applications for renewable energy and energy efficiency projects. The incentives provided will be in addition to any incentives provided through the Clean Energy Program. Technologies that qualify for this program include: wind energy, solar energy, biofuels, hydro energy, geothermal projects, energy efficiency, or energy storage applications that are used to reduce the intermittency of renewable energy technologies. Any State Department, State Authority, State Agency, or public college or university may apply to the BPU for these funds.

The program will be comprised of a number of technologies and site-specific projects designed to measure the potential for energy savings for various technologies.

The BPU will release an application for qualifying State entities to apply. The review of these applications will be done by an evaluation committee that consists of representatives from: the BPU, EDA, the Office of Economic Growth, the Commission on Science and Technology, and the Office of Energy Savings.

Applications will be reviewed and awarded based on the following criteria:

- The proposed projects ability to commence work quickly and complete the project within a given time period based on: BPU staff recommendations, program rules provided by the DOE, and the requirements outlined in the ARRA.
- The use of an innovative technology, or an innovative application of a technology that furthers the goals of the State’s Energy Master Plan.
- The ability to create jobs.
- Reductions in greenhouse gas emissions.
- The amount of energy created or saved.

The level of the grant for each selected project will be recommended by the evaluation committee to the Board of Public Utilities.

7. Program Year Milestones\*

	Milestone	Planned (Number)
1	Set-up procedures for Program	1
2	Develop Application Forms	3
2	Announce Program	1
4	Meet with Task Force	3
5	Review applications	82
6	Award incentives	82
7	Prepare and submit Quarterly Reports	4

\*Please use additional pages if more space is needed.

\*\*Mandatory requirement

8. Standard Metrics (required):\*\*

JOB METRICS	Planned
Jobs Created	224.38
Jobs Retained	0
TOTAL JOBS	224.38

9. Specific Metric Activity (required):\*\*

Metric Activity: Financial Incentives for Energy Efficiency and Other Covered Investments

SPECIFIC METRICS	Planned
Monetary value of financial incentive	\$251,743


10. User Specified Metrics (optional): \*

METRICS	Planned

11. Program Year Funds by Source \*

	Planned
a. SEP grant (all funds in the approved budget)	
	\$20,643,000
	\$
Market Budget Total	\$20,643,000
b. Leveraged funds anticipated (outside approved budget)	
	\$
	\$

*\*Please use additional pages if more space is needed.*

*\*\*Mandatory requirement*

U.S. Department of Energy  
State Energy Program (SEP) Narrative Information Worksheet

(Grant Number: \_\_\_\_\_)

State Title: Energy Efficiency Programs through the Clean Energy Program

1. Market (choose one):

<input checked="" type="checkbox"/> Buildings	<input checked="" type="checkbox"/> Industry
<input type="checkbox"/> Electric Power and Renewable Energy	<input type="checkbox"/> Policy, Planning, and Energy Security
<input checked="" type="checkbox"/> Energy Education	<input type="checkbox"/> Transportation

2. State: New Jersey

3. Program Year: 2009 Date Start: June 17, 2009 Date End: March 31, 2012

4. Topics Involved in the Overall Program Market (choose all that apply):

<input type="checkbox"/> Agriculture	<input checked="" type="checkbox"/> Federal, state, and local facilities	<input type="checkbox"/> Procurement of efficient products **
<input type="checkbox"/> Alternative fuels	<input type="checkbox"/> Federal Energy Management Program	<input type="checkbox"/> Public information
<input type="checkbox"/> Appliance efficiency and standards	<input checked="" type="checkbox"/> Financing energy programs	<input type="checkbox"/> Rating and labeling
<input type="checkbox"/> Bioenergy and biobased products	<input type="checkbox"/> Fuel cells	<input type="checkbox"/> Rebuild America
<input type="checkbox"/> Biomass power	<input checked="" type="checkbox"/> General energy efficiency for industry	<input type="checkbox"/> Residential buildings
<input type="checkbox"/> Building America	<input type="checkbox"/> Geothermal	<input type="checkbox"/> Right turn on red **
<input type="checkbox"/> Carpools, vanpools, and ridesharing **	<input type="checkbox"/> Green power programs	<input type="checkbox"/> Schools
<input type="checkbox"/> Clean Cities	<input type="checkbox"/> Heavy vehicles and trucks	<input checked="" type="checkbox"/> Solar power
<input type="checkbox"/> Climate change planning	<input type="checkbox"/> Home energy ratings	<input type="checkbox"/> State energy strategic plans
<input checked="" type="checkbox"/> Combined heat and power	<input type="checkbox"/> Hydrogen	<input type="checkbox"/> Telecommuting
<input checked="" type="checkbox"/> Commercial buildings	<input type="checkbox"/> Hydropower	<input type="checkbox"/> Thermal **
<input type="checkbox"/> Curriculum development	<input type="checkbox"/> Industrial processing	<input type="checkbox"/> Traffic signals
<input type="checkbox"/> Demand reduction	<input type="checkbox"/> Industries of the future	<input type="checkbox"/> Transmission and infrastructure reliability
<input type="checkbox"/> Distributed energy generation	<input checked="" type="checkbox"/> Lighting **	<input type="checkbox"/> Transportation alternatives
<input checked="" type="checkbox"/> Energy and environment	<input type="checkbox"/> Low-income weatherization	<input type="checkbox"/> Waste management and recycling
<input checked="" type="checkbox"/> Energy building codes	<input type="checkbox"/> Manufacturing	<input type="checkbox"/> Water systems
<input type="checkbox"/> Energy consumption and price statistics	<input checked="" type="checkbox"/> Motors and other industrial systems	<input type="checkbox"/> Wind energy
<input type="checkbox"/> Energy emergency planning	<input type="checkbox"/> Performance contracting	
<input checked="" type="checkbox"/> ENERGY STAR	<input type="checkbox"/> Policy and energy legislation	

5. Estimated Annual Energy Savings: 79507.93 MBtus

6. Description (executive summary of goals and objectives)\*

The New Jersey Board of Public Utilities will commit \$17 million to develop new Clean Energy Programs and to supplement existing programs to increase the investment in energy efficiency in the State. The New Jersey Clean Energy Program, promotes increased energy efficiency, supports installation of clean, renewable sources of energy, and offers financial incentives, programs, and services for residential, commercial, and municipal customers to save energy, money, and the environment.

Customers that are currently not eligible for incentives or customers whose energy consumption patterns do not make them likely applicants under the Clean Energy Program presently will be eligible for this program. It is anticipated that the majority of the funding will be used for whole building incentives not covered by the Clean Energy Program for those that receive their electricity from a municipal electric utility or use heating oil or propane. This will help to support the Energy Master Plan’s goal of improving the energy efficiency in 300,000 buildings each year through 2020, by expanding the universe of eligible applicants for State-sponsored programs. Funding may also be used for consumers that are eligible for the current Clean Energy Program incentives, but are not participating by providing supplemental incentives in addition to those offered by the Clean Energy Program. This will help to provide energy savings to the consumers of the State, which will help to reduce everyone’s energy bills, and create jobs.

7. Program Year Milestones\*

	Milestone	Planned (Number)
1	Set –up procedures for program	1
2	Identify customers	3
3	Develop forms	1
4	Release Program Announcement	1
5	Review Applications	1,298
6	Prepare and submit quarterly reports	4

\*Please use additional pages if more space is needed.

\*\*Mandatory requirement

8. Standard Metrics (required):\*\*

JOB METRICS	Planned
Jobs Created	185
Jobs Retained	0
TOTAL JOBS	185

9. Specific Metric Activity (required):\*\*

Metric Activity: Building Retrofits

SPECIFIC METRICS	Planned
Number of Buildings retrofitted – Oil	1009
Number of Buildings retrofitted –Municipal Electric	153
Number of Buildings retrofitted – Propane	136

10. User Specified Metrics (optional): \*

METRICS	Planned

11. Program Year Funds by Source \*

a. SEP grant (all funds in the approved budget)	Planned
	\$17,000,000
	\$
Market Budget Total	\$17,000,000
b. Leveraged funds anticipated (outside approved budget)	
	\$
	\$

*\*Please use additional pages if more space is needed.*

*\*\*Mandatory requirement*

U.S. Department of Energy  
State Energy Program (SEP) Narrative Information Worksheet

(Grant Number: \_\_\_\_\_)

State Title: Financing Program for Residential Solar

1. Market (choose one):

<input checked="" type="checkbox"/> Buildings	<input type="checkbox"/> Industry
<input checked="" type="checkbox"/> Electric Power and Renewable Energy	<input type="checkbox"/> Policy, Planning, and Energy Security
<input type="checkbox"/> Energy Education	<input type="checkbox"/> Transportation

2. State: New Jersey

3. Program Year: 2009 Date Start: June 17, 2009 Date End: March 31, 2012

4. Topics Involved in the Overall Program Market (choose all that apply):

<input type="checkbox"/> Agriculture	<input type="checkbox"/> Federal, state, and local facilities	<input type="checkbox"/> Public information
<input type="checkbox"/> Alternative fuels	<input checked="" type="checkbox"/> Financing energy programs	<input type="checkbox"/> Rating and labeling
<input type="checkbox"/> Appliance efficiency and standards	<input type="checkbox"/> Fuel cells	<input type="checkbox"/> Rebuild America
<input type="checkbox"/> Bioenergy and biobased products	<input type="checkbox"/> General energy efficiency for industry	<input checked="" type="checkbox"/> Residential buildings
<input type="checkbox"/> Biomass power	<input type="checkbox"/> Geothermal	<input type="checkbox"/> Right turn on red **
<input type="checkbox"/> Building America	<input type="checkbox"/> Green power programs	<input type="checkbox"/> Schools
<input type="checkbox"/> Carpools, vanpools, and ridesharing **	<input type="checkbox"/> Heavy vehicles and trucks	<input checked="" type="checkbox"/> Solar power
<input type="checkbox"/> Clean Cities	<input type="checkbox"/> Home energy ratings	<input type="checkbox"/> State energy strategic plans
<input type="checkbox"/> Climate change planning	<input type="checkbox"/> Hydrogen	<input type="checkbox"/> Telecommuting
<input type="checkbox"/> Combined heat and power	<input type="checkbox"/> Hydropower	<input type="checkbox"/> Thermal **
<input type="checkbox"/> Commercial buildings	<input type="checkbox"/> Industrial processing	<input type="checkbox"/> Traffic signals
<input type="checkbox"/> Curriculum development	<input type="checkbox"/> Industries of the future	<input type="checkbox"/> Transmission and infrastructure reliability
<input type="checkbox"/> Demand reduction	<input type="checkbox"/> Lighting **	<input type="checkbox"/> Transportation alternatives
<input type="checkbox"/> Distributed energy generation	<input type="checkbox"/> Low-income weatherization	<input type="checkbox"/> Waste management and recycling
<input checked="" type="checkbox"/> Energy and environment	<input type="checkbox"/> Manufacturing	<input type="checkbox"/> Water systems
<input type="checkbox"/> Energy building codes	<input type="checkbox"/> Motors and other industrial systems	<input type="checkbox"/> Wind energy
<input type="checkbox"/> Energy consumption and price statistics	<input type="checkbox"/> Performance contracting	
<input type="checkbox"/> Energy emergency planning	<input type="checkbox"/> Policy and energy legislation	
<input type="checkbox"/> ENERGY STAR	<input type="checkbox"/> Procurement of efficient products **	

5. Estimated Annual Energy Savings: Estimated 1,150 kW of solar PV to be installed

6. Description (executive summary of goals and objectives)\*

The New Jersey Housing & Mortgage Finance Agency (NJHMFA) is offering a Multifamily Solar Funding Pilot (the "Pilot"). The Pilot provides \$7 million to be dedicated to installing solar energy projects on NJHMFA's income qualified multifamily buildings across the State. The amount received by each applicant will be based on a project's calculated production estimate of NJ Solar Renewable Energy Certificates (SRECs). In exchange, SRECs accrued to a solar PV installation will be assigned to NJHMFA. The sale of these SRECs will be used to replenish the Multifamily Solar Funding Pilot. The intent of this Pilot is to provide funds for multifamily solar energy improvements that will decrease properties' utility bills; thereby reducing property operating expenses and keeping rents stable for tenants. This Pilot will also serve to stabilize the Solar REC financing market and support the future development of the solar market and renewable energy production in New Jersey. Applicants must participate in a NJ Clean Energy Program; either the Renewable Energy Incentive Program or the SREC-Only Pilot Program.

7. Program Year Milestones\*

	Milestone	Planned (Number)
1	Meet with Office of Clean Energy	1
2	Set-up Program Procedures	1
3	Develop Application forms	1
4	Announce Program	1
5	Review applications	1
6	6 Months after receipt of ARRA funds: 50% of funds are committed	10
7	12 Months after receipt of ARRA funds: all funds are committed & projects have started construction	20
8	24 Months after receipt of ARRA funds: 50% of projects are complete	10
9	36 Months after ARRA becoming law (deadline): funds are expended and projects are complete, continue to recycle funds for future projects	20
10	Prepare and submit Quarterly Reports	4

*\*Please use additional pages if more space is needed.*

*\*\*Mandatory requirement*

8. Standard Metrics (required):\*\*

JOB METRICS	Planned
Jobs Created	76.08
Jobs Retained	0
TOTAL JOBS	76.08

9. Specific Metric Activity (required):\*\*

Metric Activity: Renewable Energy Market Development

SPECIFIC METRICS	Planned
Number & size of solar energy systems installed	1.15 MW
Number of grants given	20

10. User Specified Metrics (optional): \*

METRICS	Planned
Monetary value of financial incentive provided	\$350,000

11. Program Year Funds by Source \*

	Planned
a. SEP grant (all funds in the approved budget)	\$7,000,000
	\$
Market Budget Total	\$7,000,000
b. Leveraged funds anticipated (outside approved budget)	
	\$
	\$

*\*Please use additional pages if more space is needed.*

*\*\*Mandatory requirement*

U.S. Department of Energy  
State Energy Program (SEP) Narrative Information Worksheet

(Grant Number: \_\_\_\_\_)

State Title: Low-Interest Loan Program for Residential Energy Efficiency

1. Market (choose one):

<input checked="" type="checkbox"/> Buildings	<input type="checkbox"/> Industry
<input type="checkbox"/> Electric Power and Renewable Energy	<input type="checkbox"/> Policy, Planning, and Energy Security
<input type="checkbox"/> Energy Education	<input type="checkbox"/> Transportation

2. State: New Jersey

3. Program Year: 2009 Date Start: June 17, 2009 Date End: March 31, 2012

4. Topics Involved in the Overall Program Market (choose all that apply):

<input type="checkbox"/> Agriculture	<input type="checkbox"/> Federal, state, and local facilities	<input type="checkbox"/> Procurement of efficient products **
<input type="checkbox"/> Alternative fuels	<input type="checkbox"/> Federal Energy Management Program	<input type="checkbox"/> Public information
<input checked="" type="checkbox"/> Appliance efficiency and standards	<input checked="" type="checkbox"/> Financing energy programs	<input type="checkbox"/> Rating and labeling
<input type="checkbox"/> Bioenergy and biobased products	<input type="checkbox"/> Fuel cells	<input type="checkbox"/> Rebuild America
<input type="checkbox"/> Biomass power	<input type="checkbox"/> General energy efficiency for industry	<input checked="" type="checkbox"/> Residential buildings
<input type="checkbox"/> Building America	<input type="checkbox"/> Geothermal	<input type="checkbox"/> Right turn on red **
<input type="checkbox"/> Carpools, vanpools, and ridesharing **	<input type="checkbox"/> Green power programs	<input type="checkbox"/> Schools
<input type="checkbox"/> Clean Cities	<input type="checkbox"/> Heavy vehicles and trucks	<input type="checkbox"/> Solar power
<input type="checkbox"/> Climate change planning	<input type="checkbox"/> Home energy ratings	<input type="checkbox"/> State energy strategic plans
<input type="checkbox"/> Combined heat and power	<input type="checkbox"/> Hydrogen	<input type="checkbox"/> Telecommuting
<input type="checkbox"/> Commercial buildings	<input type="checkbox"/> Hydropower	<input type="checkbox"/> Thermal **
<input type="checkbox"/> Curriculum development	<input type="checkbox"/> Industrial processing	<input type="checkbox"/> Traffic signals
<input type="checkbox"/> Demand reduction	<input type="checkbox"/> Industries of the future	<input type="checkbox"/> Transmission and infrastructure reliability
<input type="checkbox"/> Distributed energy generation	<input checked="" type="checkbox"/> Lighting **	<input type="checkbox"/> Transportation alternatives
<input checked="" type="checkbox"/> Energy and environment	<input type="checkbox"/> Low-income weatherization	<input type="checkbox"/> Waste management and recycling
<input type="checkbox"/> Energy building codes	<input type="checkbox"/> Manufacturing	<input type="checkbox"/> Water systems
<input type="checkbox"/> Energy consumption and price statistics	<input type="checkbox"/> Motors and other industrial systems	<input type="checkbox"/> Wind energy
<input type="checkbox"/> Energy emergency planning	<input type="checkbox"/> Performance contracting	
<input type="checkbox"/> ENERGY STAR	<input type="checkbox"/> Policy and energy legislation	

5. Estimated Annual Energy Savings: 6988.235 MBtus

6. Description (executive summary of goals and objectives)\*

The New Jersey Housing & Mortgage Finance Agency (“Agency”) is proposing to offer 0% interest mortgage loans through its Home Energy Saver Program (“HESP”) to income-eligible, 1-4 unit property owners (owner-occupants and owner-investors) who participate in the *Home Performance with Energy Star Program* (“HPES”) administered by the NJ Board of Public Utilities (“BPU”). Eligible property owners must have personal household incomes not exceeding 250% of Area Median Income (based on a family of four) and must not otherwise qualify for alternative financing offered under the HPES. The Agency’s HESP financing shall be capped at \$10,000 per property and must be used for eligible energy efficiency improvements identified by the HPES that will provide a minimum of 25% annual savings in accordance with the HPES Tier 3 requirements. Loan repayments will be dedicated to a revolving fund that will provide financing and utility savings to future program applicants. Loans capped at \$10,000/property and the estimated average loan is at \$6,800

7. Program Year Milestones\*

	Milestone	Planned (Number)
1	Meet with Office of Clean Energy	1
2	Set up program procedures	1
3	Develop application forms	1
4	Announce Program	1
3	Review Applications	588
4	12 Months after receipt of ARRA funds: 25% of funds are committed to projects	147
5	24 Months after receipt of ARRA funds: 75% of funds are committed to projects; 50% of these properties have closed on their loans and completed improvements and other 50% are in the process of closing loans and/or are undergoing improvements	441
6	30 Months after receipt of ARRA funds: 100% of funds are committed to projects; 75% of these properties have completed improvements and remainder are in process of closing loans and/or are undergoing improvements	588
7	36 Months after ARRA becoming law (deadline): funds are expended and projects are complete, continue to recycle funds for future projects	588
8	Prepare and submit Quarterly Reports	4

\*Please use additional pages if more space is needed.

\*\*Mandatory requirement

8. Standard Metrics (required):\*\*

JOB METRICS	Planned
Jobs Created	44
Jobs Retained	0
TOTAL JOBS	44

9. Specific Metric Activity (required):\*\*

Metric Activity: Building Retrofits

SPECIFIC METRICS	Planned
Number of buildings retrofitted	588


10. User Specified Metrics (optional): \*

METRICS	Planned
Monetary value of financial incentive provided	\$6,800

11. Program Year Funds by Source \*

	Planned
a. SEP grant (all funds in the approved budget)	\$4,000,000
	\$
Market Budget Total	\$4,000,000
b. Leveraged funds anticipated (outside approved budget)	
	\$
	\$

*\*Please use additional pages if more space is needed.*

*\*\*Mandatory requirement*

U.S. Department of Energy  
State Energy Program (SEP) Narrative Information Worksheet

(Grant Number: \_\_\_\_\_)

State Title: Multifamily Energy Efficiency Improvement Pilot (MEEIP)

1. Market (choose one):

<input checked="" type="checkbox"/> Buildings	<input type="checkbox"/> Industry
<input type="checkbox"/> Electric Power and Renewable Energy	<input type="checkbox"/> Policy, Planning, and Energy Security
<input type="checkbox"/> Energy Education	<input type="checkbox"/> Transportation

2. State: New Jersey

3. Program Year: 2009 Date Start: June 17, 2009 Date End: March 31, 2012

4. Topics Involved in the Overall Program Market (choose all that apply):

<input type="checkbox"/> Agriculture	<input type="checkbox"/> Federal, state, and local facilities	<input type="checkbox"/> Procurement of efficient products **
<input type="checkbox"/> Alternative fuels	<input type="checkbox"/> Federal Energy Management Program	<input type="checkbox"/> Public information
<input checked="" type="checkbox"/> Appliance efficiency and standards	<input checked="" type="checkbox"/> Financing energy programs	<input type="checkbox"/> Rating and labeling
<input type="checkbox"/> Bioenergy and biobased products	<input type="checkbox"/> Fuel cells	<input type="checkbox"/> Rebuild America
<input type="checkbox"/> Biomass power	<input type="checkbox"/> General energy efficiency for industry	<input checked="" type="checkbox"/> Residential buildings
<input type="checkbox"/> Building America	<input type="checkbox"/> Geothermal	<input type="checkbox"/> Right turn on red **
<input type="checkbox"/> Carpools, vanpools, and ridesharing **	<input type="checkbox"/> Green power programs	<input type="checkbox"/> Schools
<input type="checkbox"/> Clean Cities	<input type="checkbox"/> Heavy vehicles and trucks	<input type="checkbox"/> Solar power
<input type="checkbox"/> Climate change planning	<input type="checkbox"/> Home energy ratings	<input type="checkbox"/> State energy strategic plans
<input type="checkbox"/> Combined heat and power	<input type="checkbox"/> Hydrogen	<input type="checkbox"/> Telecommuting
<input type="checkbox"/> Commercial buildings	<input type="checkbox"/> Hydropower	<input type="checkbox"/> Thermal **
<input type="checkbox"/> Curriculum development	<input type="checkbox"/> Industrial processing	<input type="checkbox"/> Traffic signals
<input type="checkbox"/> Demand reduction	<input type="checkbox"/> Industries of the future	<input type="checkbox"/> Transmission and infrastructure reliability
<input type="checkbox"/> Distributed energy generation	<input checked="" type="checkbox"/> Lighting **	<input type="checkbox"/> Transportation alternatives
<input checked="" type="checkbox"/> Energy and environment	<input type="checkbox"/> Low-income weatherization	<input type="checkbox"/> Waste management and recycling
<input type="checkbox"/> Energy building codes	<input type="checkbox"/> Manufacturing	<input type="checkbox"/> Water systems
<input type="checkbox"/> Energy consumption and price statistics	<input type="checkbox"/> Motors and other industrial systems	<input type="checkbox"/> Wind energy
<input type="checkbox"/> Energy emergency planning	<input type="checkbox"/> Performance contracting	
<input type="checkbox"/> ENERGY STAR	<input type="checkbox"/> Policy and energy legislation	

5. Estimated Annual Energy Savings: 63,648 MBtus

6. Description (executive summary of goals and objectives)\*

The New Jersey Housing & Mortgage Finance Agency (NJHMFA) is offering a Multifamily Energy Efficiency Improvement Pilot (the “Pilot”). The Multifamily Energy Efficiency Improvement Pilot (the “Pilot”) permits eligible multifamily property owners to borrow funds to improve existing NJHMFA properties. The intent of this Pilot program is to provide low interest loans for multifamily housing improvements that increase properties’ energy efficiency and conserve resources thereby preserving the quality of housing for residents and reducing property operating expenses.

This loan can be used to finance the balance of the cost of energy efficiency improvements that are not covered by other incentives available from the State and Federal Government, such as the BPU’s “Pay for Performance” program or federal Energy Efficiency Commercial Buildings Tax Deduction, etc. Loan proceeds may be used to make energy conservation improvements and repairs that are necessary to enhance energy conservation. Energy improvements must be recommended as part of the Pay for Performance Program to qualify for this loan.

Applicants must participate in the NJ SmartStart Building “Pay for Performance” program through the NJ Clean Energy Program and must have a completed Energy Audit from their Performance Partner. Approximately 8-20 loans will be provided. The loans will be capped at \$500,000 per project and the estimated average loan is at \$200,000

7. Program Year Milestones\*

	Milestone	Planned (Number)
1	Meet with Office of Clean Energy	1
2	Formulate Procedures for Program	1
3	Develop application forms	1
4	Announce Program	1
5	Review applications	
6	6 Months after receipt of ARRA funds: 50% of projects are committed funding	10
7	12 Months after receipt of ARRA funds: all projects are committed & projects have started construction	20
8	24 Months after receipt of ARRA funds: 50% of projects are complete	10
9	36 Months after ARRA becoming law (deadline): funds are expended and projects are complete, continue to recycle funds for future projects	20
10	Prepare and submit Quarterly Reports	4

\*Please use additional pages if more space is needed.

\*\*Mandatory requirement

8. Standard Metrics (required):\*\*

JOB METRICS	Planned
Jobs Created	44
Jobs Retained	0
TOTAL JOBS	44

9. Specific Metric Activity (required):\*\*

Metric Activity: Building Retrofits

SPECIFIC METRICS	Planned
Number of buildings retrofitted	20

10. User Specified Metrics (optional): \*

METRICS	Planned
Monetary value of financial incentive provided	\$200,000

11. Program Year Funds by Source \*

	Planned
a. SEP grant (all funds in the approved budget)	\$4,000,000
	\$
Market Budget Total	\$4,000,000
b. Leveraged funds anticipated (outside approved budget)	
	\$
	\$

*\*Please use additional pages if more space is needed.*

*\*\*Mandatory requirement*

U.S. Department of Energy  
State Energy Program (SEP) Narrative Information Worksheet

(Grant Number: \_\_\_\_\_)

State Title: Grants and loans for Energy Efficiency, Renewable Energy and Alternative Energy Applications

1. Market (choose one):

<input type="checkbox"/> Buildings	<input checked="" type="checkbox"/> Industry
<input checked="" type="checkbox"/> Electric Power and Renewable Energy	<input type="checkbox"/> Policy, Planning, and Energy Security
<input checked="" type="checkbox"/> Energy Education	<input checked="" type="checkbox"/> Transportation

2. State: New Jersey

3. Program Year: 2009 Date Start: June 17, 2009 Date End: March 31, 2012

4. Topics Involved in the Overall Program Market (choose all that apply):

<input checked="" type="checkbox"/> Agriculture	<input type="checkbox"/> Federal, state, and local facilities	<input type="checkbox"/> Procurement of efficient products **
<input checked="" type="checkbox"/> Alternative fuels	<input type="checkbox"/> Federal Energy Management Program	<input type="checkbox"/> Public information
<input type="checkbox"/> Appliance efficiency and standards	<input checked="" type="checkbox"/> Financing energy programs	<input type="checkbox"/> Rating and labeling
<input type="checkbox"/> Bioenergy and biobased products	<input type="checkbox"/> Fuel cells	<input type="checkbox"/> Rebuild America
<input checked="" type="checkbox"/> Biomass power	<input type="checkbox"/> General energy efficiency for industry	<input type="checkbox"/> Residential buildings
<input type="checkbox"/> Building America	<input type="checkbox"/> Geothermal	<input type="checkbox"/> Right turn on red **
<input type="checkbox"/> Carpools, vanpools, and ridesharing **	<input type="checkbox"/> Green power programs	<input type="checkbox"/> Schools
<input type="checkbox"/> Clean Cities	<input type="checkbox"/> Heavy vehicles and trucks	<input checked="" type="checkbox"/> Solar power
<input type="checkbox"/> Climate change planning	<input type="checkbox"/> Home energy ratings	<input type="checkbox"/> State energy strategic plans
<input type="checkbox"/> Combined heat and power	<input type="checkbox"/> Hydrogen	<input type="checkbox"/> Telecommuting
<input type="checkbox"/> Commercial buildings	<input type="checkbox"/> Hydropower	<input type="checkbox"/> Thermal **
<input type="checkbox"/> Curriculum development	<input checked="" type="checkbox"/> Industrial processing	<input type="checkbox"/> Traffic signals
<input type="checkbox"/> Demand reduction	<input type="checkbox"/> Industries of the future	<input type="checkbox"/> Transmission and infrastructure reliability
<input type="checkbox"/> Distributed energy generation	<input checked="" type="checkbox"/> Lighting **	<input checked="" type="checkbox"/> Transportation alternatives
<input checked="" type="checkbox"/> Energy and environment	<input type="checkbox"/> Low-income weatherization	<input type="checkbox"/> Waste management and recycling
<input type="checkbox"/> Energy building codes	<input type="checkbox"/> Manufacturing	<input type="checkbox"/> Water systems
<input type="checkbox"/> Energy consumption and price statistics	<input type="checkbox"/> Motors and other industrial systems	<input type="checkbox"/> Wind energy
<input type="checkbox"/> Energy emergency planning	<input type="checkbox"/> Performance contracting	
<input type="checkbox"/> ENERGY STAR	<input type="checkbox"/> Policy and energy legislation	

5. Estimated Annual Energy Savings: Cannot be determined at this time MBtus

6. Description (executive summary of goals and objectives)\*

In order to assist deserving projects most impacted by the recession and the lack of credit and capital impeding their deployment in the marketplace, \$15 million will be committed to a competitive grant/investment process through the New Jersey Economic Development Authority (EDA) under a new program called the Clean Energy Solutions ARRA program. The purpose of these funds will be to fund projects beyond proof of concept, which have an innovative NJ technology and some level of private funding validation and will enable the deployment of a commercially viable NJ energy efficient, renewable energy or alternative energy project. Energy storage applications will also be considered, as long as they are being used to support and limit the intermittency of a renewable energy application. Alternative fuel projects that produce a transportation fuel that supports the State’s efforts to reduce greenhouse gas emissions will also be applicable under this program. Biomass projects will also be considered.

This program will compliment the EDA’s Regional Greenhouse Gas Initiative program, and the State’s Edison Innovation Fund, by offering project-based financing support for novel technologies, unlike what is offered under these two EDA programs. It will also supplement other State Programs by serving as a source of funding for projects not funded and/or not sufficiently funded by these sources, notably in the arena of alternative fuels. The recently launched Edison Innovation Clean Energy Manufacturing Fund (CEMF) offers assistance in the form of grants and zero interest loans to supports the manufacturing infrastructure of Class I renewable energy and energy efficiency companies entering or expanding within the manufacturing stage of commercial development. The upcoming EDA Clean Energy Solutions RGGI program will provide financial support in the form of grants and 0% loans to support commercial, institutional and industrial entity end-use energy efficiency projects, combined heat and power production facilities, and new state of the art efficient electric generation facilities that meet N.J.A.C. 7:27D-2.2 regulatory requirements at a minimum. The new Clean Energy Solutions ARRA program thus supports project financing for novel commercially available technologies separate and distinct from sectors addressed by the RGGI or CEMF financing programs and separate or supplemental to other State programs.

7. Program Year Milestones\*

Milestone		Planned (Number)
1	Meet with Office of Clean Energy	1
2	Formulate Procedures for Program	1
3	Develop loan applications	1
	Release Grant solicitation	
4	Announce Program	1
5	Review applications	30
6	Review Grant proposals	7
7	Projects Funded	3-5
8	Prepare and submit Quarterly Reports	4
9		

*\*Please use additional pages if more space is needed.*

*\*\*Mandatory requirement*

8. Standard Metrics (required):\*\*

JOB METRICS	Planned
Jobs Created	81
Jobs Retained	81
<b>TOTAL JOBS</b>	<b>162</b>

9. Specific Metric Activity (required):\*\*

Metric Activity: Financial Incentives for Energy Efficiency and Other Covered Investments

SPECIFIC METRICS	Planned
Monetary value of financial incentives provided	\$2,000,000

10. User Specified Metrics (optional): \*

METRICS	Planned

11. Program Year Funds by Source \*

	Planned
a. SEP grant (all funds in the approved budget)	\$15,000,000
	\$
Market Budget Total	\$15,000,000
b. Leveraged funds anticipated (outside approved budget)	
	\$
	\$

*\*Please use additional pages if more space is needed.*

*\*\*Mandatory requirement*

