

**New Jersey's Clean Energy Program
Revised 2011 Program Descriptions and Budgets**

Office of Clean Energy

**Energy Efficiency Programs,
Renewable Energy Programs, and
OCE Oversight Activities**

Including Programs Managed by:

**New Jersey Economic Development Authority,
and Sustainable Jersey**

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I. OCE Energy Efficiency Programs

Special Studies – Green Jobs and Building Code Training

The initial 2011 budget approved by the Board included \$477,801 for Special Studies. In 2009 the Board issued a solicitation for “Green Jobs Training” and awarded \$872,000 in grants to three entities. A portion of the grants were paid in 2010. Remaining expenses related to these grants will be paid from the Special Studies budget.

The initial 2011 budget also included, within the OCE Oversight budget category, a budget for Green Jobs and Building Code Training. This budget includes funding for partnering with the New Jersey Department of Community Affairs through an MOU to assist in training local code officials regarding new residential and commercial building energy codes as well as to develop more stringent energy codes. In this compliance filing the OCE proposes to combine the Special Studies and Green Jobs and Building Code Training budgets within the EE budget category. The combined program will be named Green Jobs and Building Code Training.

Grant – Loan Competitive Solicitation Program

The 2011 budget includes \$30 million for a proposed competitive solicitation for a new grant/loan program being developed by the Office of Clean Energy (OCE). The OCE will develop a competitive solicitation for grants and/or loans paid to trade groups or other entities that deliver energy efficiency or renewable energy. The OCE will submit a draft program proposal to the Board for review and approval prior to issuing any solicitation.

Sustainable Jersey

The Sustainable Jersey program is described in detail in Attachment A. The initial 2011 budget approved by the Board included funding for this program within the OCE Oversight budget category. In this compliance filing the OCE proposes to transfer the funds for this program from the OCE Oversight to the EE budget category.

II. OCE Renewable Energy Programs

CleanPower Choice Program

Program Description

The CleanPower Choice Program offers retail electric customers the option of selecting an energy product or products with higher levels of renewable energy than is required by the RPS. The option is available to all retail electric customers in the State via a sign up option on utility bills. The products offered by Clean Power Marketers (CPM) are 100% renewable energy but customers may select any percentage of their usage to be supplied by this 100 % renewable energy product. The program provides additional incentives for the development of renewable energy facilities throughout the region.

A detailed description of the proposed program is available on the NJCEP web site.

The CleanPower Choice Program will continue to be managed by Board Staff. Staff is proposing to reduce the level of NJCEP support provided to the program in 2011 and to rely instead on the efforts of the Clean Power Marketers to market the program and to verify the delivery of renewable energy. The Utilities will support the CleanPower Choice program by maintaining the IT changes needed to support a line item on customer's bills and systems to support EDI transactions with Clean Power Marketers. The Utilities compliance filing budget includes funding for these CleanPower Choice support services.

Target Market/Eligibility

The program targets all retail electric customers of the State's four investor owned electric utilities. Clean power sales in the voluntary program must be renewable energy that is not otherwise used to meet a suppliers RPS requirements and includes full disclosure of the power supply mix utilized by the suppliers participating in the program.

Program Offerings and Customer Incentives

The voluntary program allows customers to select a product with 100% renewable energy content in varying percentages of the customer's usage at a potentially higher cost than basic generation services would provide.

Program Delivery

The program is overseen by the Office of Clean Energy. Implementation is achieved through a collaborative utility-clean power marketer program hosted by the four investor owned electric utilities. The 'host' utilities provide a delivery platform to enable enrollment and billing, with oversight by the Office of Clean Energy. The program is offered as an add-on subscription of clean power supplied by a qualified third-party clean power marketer without interruption to customer's basic electric service. The OCE will develop proposed rules for consideration by the Board that will establish the verification requirements that will be imposed on the Clean Power Marketers.

Program Budget

The proposed 2011 budget for the CPC program includes fees for program support services provided by the utilities which are described in the Utility compliance filing.

Offshore Wind Program

By Order dated November 21, 2008, Docket No. EO08110971, the Board authorized Staff to develop and issue an application for an Offshore Wind (OSW) Rebate program that would provide rebates for the installation of meteorological towers. The proposed RE budget includes \$10 million for rebate commitments made pursuant to the OSW Rebate program and reflect recent changes to the OSW rebates approved by the Board and expanded the rebates to include buoys in addition to meteorological towers.

The 2011 OSW budget will also be used to pay any remaining expenses related to an OSW study to be performed by the Rutgers Institute of Marine and Coastal Sciences previously approved by the Board.

Renewable Energy Program: Grid Connected

In 2009 the OCE developed and the Board issued a competitive solicitation for incentives for the development of grid connected renewable energy systems. The solicitation's objective was to facilitate the development of renewable wind and biopower energy projects in New Jersey. The selected proposals demonstrate the superior ability of the project team to construct a wind or biopower project, and the need for grant funds to document feasibility, secure permits, process feedstocks, demonstrate innovative financing, supplement other revenue streams, or overcome other barriers to private investment in renewable electricity generation.

Proposals that provide renewable wind and biopower energy generation using emerging, commercially available technologies that maximize energy production during peak demand periods with the greatest feasibility were given preference. Proposals that provide clean energy generation that address load pocket or congestion problems within the electricity distribution system serving New Jersey were also given preference. Other evaluation criteria that were considered included projects that encourage increased energy security, reliability and maximized environmental benefits to New Jersey ratepayers.

In 2010 the Board awarded approximately \$3.9 million in incentives to two projects. The 2011 budget includes funding both for projects that were awarded incentives in response to the 2009 solicitation and approximately \$7.4 million for a new solicitation to be issued in 2011.

Edison Innovation Clean Energy Fund

In 2010 the Commission on Science and Technology managed a solicitation for the Board through the Edison Innovation Clean Energy Fund. The program offered assistance in the form of grants to support New Jersey renewable energy and energy efficiency technology research and development activities. In 2010 the Board approved approximately \$4.5 million in grants. The proposed 2011 budget includes funding for outstanding commitments previously approved by the Board. There are no plans for an additional solicitation in 2011. The previously approved grants will be managed by the OCE going forward.

III. EDA

The New Jersey Economic Development Authority (EDA) will manage three programs in 2011 as follows:

1. Edison Innovation Clean Energy Manufacturing Fund
2. Edison Innovation Green Growth Fund
3. Clean Energy Solutions Energy Efficiency Revolving Loan Fund

Detailed descriptions of the programs to be managed by EDA are included in Attachment B.

IV. OCE Oversight Activities

The proposed OCE Oversight budget includes three components:

1. Administration and Overhead;
2. Evaluation and Related Research; and,
3. Marketing and Communications.

This document provides a description regarding how these funds will be expended and a budget for each.

Administration and Overhead

The Administration and Overhead component of the OCE Oversight budget includes two sub-components as follows:

- OCE Staff and Overhead
- Program Coordinator Services

OCE Staff and Overhead

The Office of Clean Energy (OCE) was charged by the Board with the responsibility for administering New Jersey's Clean Energy Program. As the administrator of New Jersey's Clean Energy Program, the OCE is responsible for various program related matters including:

1. Developing recommendations to the Board regarding programs to be funded, budgets for those programs and various matters related to the administration and implementation of the programs.
2. Drafting Board Orders memorializing Board decisions and tracking compliance with such Orders.
3. Development of policies and procedures for payments to the NJCEP Trust Fund and payments made by the Trust Fund for program related services:
 - a. Coordinating with Treasury with regard to the financial management of the programs and reporting
 - i. Coordinating with Treasury audits of the Trust Fund and program managers
 - b. Review of payments requests to insure consistency with policies and procedures and any contractual arrangements
4. Coordinating the activities of the Clean Energy Council committees including soliciting input regarding programs, budgets and program administrative matters.
5. Overseeing the activities of the Program Coordinator and the various program managers including the Market Managers, utilities, EDA, and the OCE itself with regard to renewable energy and education and outreach efforts and potentially others.

6. Developing reporting guidelines and providing the Board with regular updates regarding program activities.
7. Development of protocols for measuring energy savings and renewable energy generation.
8. Overseeing evaluation and related research activities.
9. Development of program goals, performance indicators and minimum requirements for program management.
10. Monitoring program activity and reviewing evaluation results and recommending modifications to programs and budgets as required.
11. Developing requests for proposals to engage program managers, evaluation contractors and other contractors that assist with the administration of the programs, evaluating proposals received, and selecting contractors.
12. Facilitate resolution of issues related to program management and customer complaints.

The OCE Staff and Overhead component of the budget is primarily for BPU staff salaries and payments to Treasury related to the provision of the services described above.

Program Coordinator Services

In 2007 Applied Energy Group (AEG) was engaged by the Board to serve as the Program Coordinator. The OCE Oversight budget includes funding for the costs associated with this contract.

AEG provides a number of services in its role as Program Coordinator including the following:

1. AEG developed and maintains an IMS system for tracking and reporting all program activities including, utility, RGGI, ARRA, retail margin and other programs
2. Preparation of monthly and annual reports
3. Hosting the NJCEP website and supporting the maintenance of the website
4. Financial management including invoice processing
5. Quality assurance including field inspections and file reviews to ensure all program policies and procedures are adhered to including ARRA programs
6. Marketing and communications coordination to ensure consistency across all marketing activities
7. Evaluation support; AEG supports the evaluation efforts managed by CEEEP
8. Hosting the statewide 800 number and provision of call center services
9. Dispute resolution
10. Regulatory support; AEG assists in the drafting of Board orders and other regulatory documents related to the NJCEP

The 2011 Program Coordinator budget includes fees for services related to reporting program activities for the utility programs approved by the Board and programs funded through ARRA.

Memberships and Dues

The 2011 proposed budget does not include any new memberships or sponsorships for 2011. The 2011 budget for Memberships and Dues is included for commitments made in 2010 that will be paid in 2011.

Evaluation and Related Research

Rutgers University's Center for Energy, Economic and Environmental Policy (CEEEP) has been engaged by the Office of Clean Energy (OCE) to manage program evaluation and related research activities. CEEEP will develop evaluation and related research plans, solicit input on the plans from the OCE, the Clean Energy Council, program managers and others and will implement such plans upon approval by the OCE.

Once evaluation plans are approved, CEEEP will either perform the evaluation and research activities or will develop the technical components of requests for proposals (RFPs) to engage outside contractors to perform the evaluations. RFPs will be issued by either Treasury or CEEEP and CEEEP will work with Treasury regarding the review of proposals and will manage the day-to-day activities of contractors hired to perform evaluations. CEEEP will coordinate with the OCE and the Clean Energy Council to implement recommendations that result from the evaluations and related research. The revised CEEEP budget includes additional funding for the data center and for activities related to supporting the development of the State Energy Master Plan.

2011 Evaluation and Related Research: Planned Activities

The Evaluation and Related Research budget includes funding for a number of evaluation related activities planned for 2011 including the following:

- Rutgers Center for Energy, Economic and Environmental Policy: evaluation support. This is a continuation of an existing contract to provide overall program evaluation management services and cost benefit analyses.
- Other Studies: This budget includes funding for the Anemometer Program (see details below).
- Program Evaluation: The budget includes funding for 2011 evaluation activities included in the 2010 evaluation plan which will need to be updated to reflect the revised 2011 evaluation budget. Staff will developed detailed proposals for the specific uses of these funds subject to Board approval.
- Financial Audits: The budget includes funding for financial audits of the Market Managers and utilities that manage or managed NJCEPs.

CEEEP will develop a revised 2011 to 2012 Evaluation and Related Research Plan, circulate a draft plan for input from the OCE, Rate Counsel, the Clean Energy Council, utilities, program managers and others and submit a final plan to OCE for approval. The 2011 program evaluation budget will fund activities included in the 2010 to 2012 Evaluation and Related Research Plan as approved by the Board.

New Jersey Regional Anemometer Program

In 2008 the Board awarded a grant to The Richard Stockton College of New Jersey, The College of New Jersey, and Ocean County Community College, to manage the "New Jersey Regional

Anemometer Program” (NJRAP). All the grantees except TCNJ have completed their scope of work. TCNJ has requested a one year extension. The purpose of the NJRAP program is to enlist the assistance of NJ colleges and universities in building New Jersey’s capacity for providing wind resource assessment services through:

1. The purchase and provision of anemometers (wind measuring instrumentation) and related services through colleges and universities without anemometers, or
2. The service, maintenance, and redeployment of anemometers through colleges and universities with existing anemometers.

In 2008 the Board approved a budget of \$68,000 for this program and, as noted above, awarded two year grants to the three schools. OCE is proposing to continue this program through 2011 at the same funding level previously approved by the Board which is a maximum of \$68,000 over the term of the grants. Money for this project will come from the NJCEP “Other Studies/Job Training Pilot” Evaluation and Related Research line item within the OCE Administration Budget.

Marketing and Communications

In 2011 all of the program marketing will be delivered by the Market Managers, Honeywell and TRC. The proposed budget includes funding for Outreach and Education grants previously approved by the Board. The 2011 budget does not include funding for a new solicitation.

Appendix A: Revised 2011 Program Budgets

The following tables set out revised detailed 2011 budgets for the programs managed by the OCE:

Office of Clean Energy Energy Efficiency Program Compliance Filing Revised Detailed 2011 Budgets							
Energy Efficiency Programs	Total	Administration and Program Development	Sales, Call Centers, Marketing and Website	Training	Rebates, Grants, and Other Direct Incentives	Rebate Processing, Inspections, and Other Quality Control	Evaluation and Related Research
Green Jobs and Building Code Training	\$678,853.10				\$678,853.10		
Competitive Grant-Loan Solicitation	\$30,000,000.00				\$30,000,000.00		
Sustainable Jersey	\$625,000.00				\$625,000.00		
Total Energy Efficiency	\$31,303,853.10	\$0.00	\$0.00	\$0.00	\$31,303,853.10	\$0.00	\$0.00

Office of Clean Energy Renewable Energy - EDA Programs Compliance Filing Revised Detailed 2011 Budgets						
Renewable Energy Programs	Total	Administration and Program Development	Sales, Call Centers, Marketing and Website	Training	Rebates, Grants, and Other Direct Incentives	Rebate Processing, Inspections, and Other Quality Control
Offshore Wind Solicitation	\$11,870,253.00				\$11,870,253.00	
Renewable Energy Program: Grid Connected	\$11,282,831.73				\$11,282,831.73	
Edison Innovation Clean Energy Fund	\$3,655,277.00				\$3,655,277.00	
TOTAL Renewables	\$26,808,361.73	\$0.00	\$0.00	\$0.00	\$26,808,361.73	\$0.00

EDA Programs	Total	Administration and Program Development	Sales, Call Centers, Marketing and Website	Training	Rebates, Grants, and Other Direct Incentives	Rebate Processing, Inspections, and Other Quality Control
Edison Innovation Clean Energy Manufacturing Fund and Green Growth Fund	\$35,634,153.38	\$240,000.00			\$35,394,153.38	
Edison Innovation Green Growth Fund	\$4,000,000.00	\$60,000.00			\$3,940,000.00	
EE Revolving Loan Fund	\$18,000,000.00	\$360,000.00			\$17,640,000.00	
TOTAL EDA Programs	\$57,634,153.38	\$660,000.00		\$0.00	\$56,974,153.38	\$0.00

Office of Clean Energy
OCE Oversight Compliance Filing
Revised Detailed 2011 Budgets

	Total	Administration and Program Development	Sales, Call Centers, Marketing and Website	Training	Rebates, Grants, and Other Direct Incentives	Rebate Processing, Inspections, and Other Quality Control	Evaluation and Related Research
Administration and Overhead							
OCE Staff and Overhead	\$1,477,499.04	\$1,477,499.04					
Program Coordinator	\$2,067,983.00	\$617,595.00	\$534,936.00			\$796,452.00	\$119,000.00
Memberships-Dues							
Clean Energy States Alliance	\$25,000.00				\$25,000.00		
Consortium for Energy Efficiency	\$133,817.00				\$133,817.00		
Sub-Total: Administration and Overhead	\$3,704,299.04	\$2,095,094.04	\$534,936.00	\$0.00	\$158,817.00	\$796,452.00	\$119,000.00
Evaluation and Related Research							
Rutgers-CEEEP	\$908,415.71						\$908,415.71
Funding Reconciliation	\$21,055.00						\$21,055.00
O&M Scoping Study/Online Academy	\$450,000.00						\$450,000.00
Other Studies	\$44,566.75						\$44,566.75
Program Evaluation	\$1,951,779.65						\$1,951,779.65
Financial Audits	\$498,162.35						\$498,162.35
Green Jobs and Building Code Training	\$0.00						\$0.00
Sub-Total: Evaluation and Related Research	\$3,873,979.46	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3,873,979.46
Marketing and Communications							
Outreach and Education/Community Partner Grants	\$122,772.31				\$122,772.31		
Sub-Total: Marketing and Communications	\$122,772.31	\$0.00	\$0.00	\$0.00	\$122,772.31	\$0.00	\$0.00
TOTAL: Administration	\$7,701,050.81	\$2,095,094.04	\$534,936.00	\$0.00	\$281,589.31	\$796,452.00	\$3,992,979.46

Attachment A: Sustainable Jersey Program

1. Description and Overview

Sustainable Jersey believes that there is no reason that every single municipality and local government in New Jersey cannot initiate and complete a wide range of energy and cost saving activities in a short period of time. The laws and regulations, financial instruments, technical knowledge, and program capacity already exist. Utilizing the assets and reputation of the Sustainable Jersey program, we believe we can expand our partnership with the Board of Public Utilities to build on the existing base of programs to implement a new slate of activities that are efficient and effective, leverage the private sector and volunteers, and will lock in long-term savings for communities, residents, and businesses, throughout New Jersey.

Sustainable Jersey™ Statewide Municipal Government Sustainability Certification Program (The Program) is an initiative of municipal governments and leading organizations across New Jersey working to assist communities in working toward a sustainable future.

Sustainable Jersey™ is a comprehensive suite of policies, resources, support, and incentives to help New Jersey municipalities make progress on a suite of sustainability issues. The Program awards a prestigious certification that recognizes Sustainable Jersey™ certified communities in New Jersey.

Since The Program was launched in February 2009, over half the 566 municipalities in New Jersey have joined the Sustainable Jersey program and passed resolutions stating their intent to become certified.

Sustainable Jersey currently works with the New Jersey Clean Energy Program to drive local government participation in CEP programs, and to work with CEP on the development of new policies, technical resources, and incentives within Sustainable Jersey™ to support the Clean Energy Programs (CEP). In a short time, Sustainable Jersey has been instrumental in swelling the participation of municipalities in the Local Government Energy Audit Program, the Community Partners initiative, Direct Install, the Home Performance with Energy Star Program, among others.

Sustainable Jersey™ is a collaborative effort between the NJ League of Municipalities' Mayors' Committee for a Green Future and the Municipal Land Use Center at The College of New Jersey, in partnership with the NJ Department of Environmental Protection, and the NJ Board of Public Utilities. The implementing authority for Sustainable Jersey is the College of New Jersey and they serve as the recipient for all state funds on the project. The policies and other substantive contents of The Program are developed through a transparent participatory process involving NGOs, academics, government, and the business community. To support municipal progress, The Program links "incentives" such as new grants and bonus points on State grant programs for participating communities, technical

resources, and detailed implementation guidance. A training component that supports communities in undertaking new initiatives is also part of this comprehensive program.

The Clean Energy Programs that target municipalities have partnered with the Sustainable Jersey™ Program to take advantage of its distribution and recruitment network, and its unique stakeholder engagement process that guides successful program design. The concept is to utilize this partnership to leverage the social capital and leadership of municipalities to educate and enroll governments, residents and businesses in CEP initiatives. The Goals of the existing Sustainable Jersey CEP partnership include:

- Continuing to develop Sustainable Jersey™ as a vehicle for driving municipal actions that support New Jersey's Energy and Climate objectives
- Continuing to integrate Sustainable Jersey™ and CEP to drive participation of municipal, commercial and residential customers in NJCEP programs
- Removing barriers to entry for municipalities to participate in CEP programs, and other related Federal and government programs, related to clean energy and greenhouse gasses
- Advancing new strategies and program design that optimizes public dollars, and leverage private dollars, in pursuit of New Jersey's Clean Energy and Climate objectives.

The unique nature of the Sustainable Jersey™ collaborative partnership has contributed to the successful recruitment and registration of over 310 municipalities in the first 20 months of The Program. Using Sustainable Jersey as an outreach tool, and a capitalizing on the growing base of support it is creating for sustainability, has greatly extended the reach and market penetration of the CEP programs. This compliance filing will continue work linking relevant NJCEP program components into Sustainable Jersey, and will expand the scope of local government services to extend to research and direct support to promote new private sector approaches such as Energy Savings Improvement Programs.

The Sustainable Jersey "*advantage*" manifests through our unique relationships with municipalities and communities; and with experts and stakeholders in the field. First, our combination of mayors on the stump, workshops, and social networking makes our ability to conduct outreach and achieve market penetration unmatched by any other entity in New Jersey or nationally. Second, Sustainable Jersey has been unique in rapidly developing programs and policies that succeed because they meet the needs of the target audience. Sustainable Jersey is an initiative that combines an instrumentality of the State (The College of New Jersey) as the implementing arm, the NJ League of Municipalities providing credibility and "ground truthing" to our program development, and engages with scientists, state agencies, and stakeholders to ensure our efforts have a broad base of support and are thoroughly vetted. Taken together, these two factors place Sustainable Jersey in a unique position to develop and implement a wide range of programs.

The Municipal Land Use Center at The College of New Jersey will provide support and services to the New Jersey Board of Public Utilities (The Board) and its Market Managers, in conjunction with the Sustainable Jersey™ program to:

- Further the effectiveness and penetration of their various Clean Energy Programs (CEP) through linkage with Sustainable Jersey™;
- Integrate existing, and create new, CEP and Sustainable Jersey™ actions, standards, and incentives as appropriate;
- Increase the acceptance and utilization of new private sector approaches to generating energy savings and renewable generation;
- Implement a series of policy development and outreach efforts through Sustainable Jersey™ that will change the behavior of municipalities and New Jersey citizens in ways that support achieving the goals and objectives of the Board, the Global Warming Response Act, and the NJ Energy Master Plan;
- Conduct research and feasibility studies on a slate of potential new approaches that will increase energy savings and generation, while maximizing public investment and private sector support.

2. Program Goals

The goals of the Sustainable Jersey™ CEP partnership include:

- Continuing to develop Sustainable Jersey™ as a vehicle for driving municipal and local government actions that support New Jersey's Energy and Climate objectives
- Continuing to integrate Sustainable Jersey™ and CEP to drive participation of local government, commercial and residential customers in NJCEP and CEP programs
- Broadening the value proposition that rewards community for undertaking clean energy initiatives
- Coordinating various Market Managers and CEP programs at the community level through Sustainable Jersey™
- Uncovering and removing barriers to entry for municipalities to participate in CEP programs, and other related Federal and government programs, related to clean energy and greenhouse gasses
- Uncovering and removing barriers to local governments to leverage private funds to support energy generation and savings activity
- Supporting energy and GHG emission reductions of 20% by 2020

The linking of the CEP program with the Sustainable Jersey™ Municipal Government Certification Program provides an enhanced program delivery mechanism as well as an additional coordinated entry point for municipal participation in various CEP components. Many of the actions that municipalities could take to earn Sustainable Jersey™ certification are consistent with the Energy Efficiency and Renewable Energy goals of CEP. Sustainable Jersey™ will grant points towards certification for those municipalities that both utilize and support CEP programs, thereby increasing the likelihood of municipal involvement and constituent participation in NJCEP Programs. This is a win-win-win synergy for NJCEP, Sustainable Jersey™ and participating municipalities.

To facilitate communications and enrollment in NJCEP Programs, Sustainable Jersey™ will provide links to relevant CEP Programs on its website. Alerts and updates will be sent to a statewide network of municipal "Green Teams" in each of over 300 municipalities as these programs change. Sustainable Jersey™, BPU, and the Market managers generally will share data regarding municipality progress towards certification and CE Program participation.

The CEP and Sustainable Jersey™ will develop co-branded outreach efforts, and develop appropriate new Sustainable Jersey™ “actions” that enable municipalities to score points toward the certification by implementing CEP programs. These linked activities will create new opportunities to build mutual awareness and to maximize marketing opportunities for both NJCEP and Sustainable Jersey™.

New for 2011, Sustainable Jersey will initiate education, training, and targeted support to help municipalities and local governments take advantage of private sector funding to energy efficiency building upgrades and renewable generation. Existing legal authority and financial instruments exist, however few local governments have taken advantage due to high opportunity costs, lack of understanding of the programs, and unequal negotiating position with energy services companies.

In addition, Sustainable Jersey and MLUC@TCNJ will research and vet a range of new policy options that will increase the effectiveness of public investments in this area and make recommendations to the Board.

3. Program Advantages

Community Incentives

Municipalities that participate in Sustainable Jersey™ will receive priority access to various state and private grants including the Sustainable Jersey™ Small Grants Program funded by Wal-Mart, the NJDEP Local Government Greenhouse Gas Emission Reduction Grant Program (if reinstated), and have priority access to the NJBPU's Local Government Energy Audit program. Moreover, participating municipalities are eligible to receive training and technical assistance from Sustainable Jersey™, both for assistance in implementing CEP efforts, and generally in organizing and implementing their sustainability and sustainable energy efforts.

Synergies with Other Community Organizations

To ensure a high-profile and broadly accepted program, the project partners convened a Sustainable Communities Working Group of over 200 experts and leaders from every sector to support the development of the first version of the Sustainable Jersey™ program. Through this participatory process nonprofit organizations such as the Association of New Jersey Environmental Commissions, NJ Future, NJ American Planning Association, and the New Jersey Department of Environmental Protection have taken on a leadership role by drafting tools for The Program, as well as coordinating outreach and training for their members. This participatory process involving NGOs, academics, government, and the business community has been used to develop the core program's standards and guidance material.

In addition, the over 300 Sustainable Jersey™ registered municipalities are full partners in developing and implementing The Program. To achieve certification, municipalities must form a Green Team and actively participate in coordinating implementation efforts on the ground. This constitutes a powerful network of local partners. The result is an overall program that enjoys broad legitimacy and support, and has become the point of entry for

the majority of local sustainability efforts. Linking CEP with this effort ensures that the programs do indeed synergize with these ongoing local efforts.

Coordination Between Market Segments

By design, The Program facilitates coordination between market segments, and leverages the social capital and leadership of local governments to reach the various sectors with their communities. Sustainable Jersey™ offers “one-stop-shopping” for municipalities that want to participate in sustainability efforts. It allows them to easily understand and identify the full slate of State, Federal, and County programs that are available to local governments, and to businesses and residents within their communities. A key task of integrating CEP into Sustainable Jersey™ is to track currently offered programs and seamlessly integrate them with future new “actions” and programs for consumption and use by municipal actors.

4. Program Elements and Deliverables

Support and Outreach

The purpose of the outreach, recruitment and marketing program is to ensure that Sustainable Jersey™ is presented to municipal leaders and the general public in a way that they will understand and find motivating. The Program engages the considerable communications resources of its strong coalition of partners to increase recognition of Sustainable Jersey™ among state leaders and media. The Program’s increasing prestige, its conveyance of awards and recognition, attainment of local media coverage, and its competitive grant programs provide real value to local governments that achieve sustainable results. Awards will be given to municipalities that complete the highest level of certification and also for programs that demonstrate innovation, collaboration, and leadership.

A specific emphasis will be directed toward supporting information and outreach activities to highlight CEP programs that target municipalities, or would benefit from promotion by municipalities directed toward business or residential customers eligible to utilize CEP programs. This will include integrating promotion of CEP into all Sustainable Jersey™ outreach efforts, and having dedicated programs, including workshops and on-line communications, specific to CEP.

The Program brings the following capacities to CEP and will yield the listed deliverable.

- Workshops, Events, and Conferences: To spread the word across the state, The Program has made a concerted effort to provide workshops, present at existing events and secure booth space at every possible green/environmental and sustainable conference in the state. Tailored trade show panels were developed for these events as a way to showcase and market The Program. These events have provided hundreds of new contacts to our mailing list and allowed us to identify the needs and interests of the municipalities through personal conversations. Representatives from the Mayors Committee for a Green Future serve as ambassadors for the Sustainable Jersey™ program by speaking at these meetings, events and conferences to encourage and support municipal and community efforts to initiate sustainability programs.

- Web Site and Brochure: A Web site was established to serve as New Jersey's one-stop-shop for information on the Sustainable Jersey™ program as well as statewide green events and sustainability information in general. The site serves as the key information source for people interested in The Program. A full-color project brochure was developed that replicates the look and information contained on the Web site. The brochure is distributed at events.
- Social Media and E-Mail Blasts: The Program has developed an extensive mailing list of municipalities, agencies, businesses and the general public. Periodically, Sustainable Jersey™ program information is distributed to this list. Sustainable Jersey™ has a track record of mobilizing award winning, and record breaking, levels of participation in on-line and social media campaigns among NJ Green Teams, allies and supporters throughout the state through a linked online campaign involving its Web site, targeted emails, Facebook, Linked In, Twitter and topical online discussion groups. Media Relations: Media releases and general coverage of The Program in the press has been a part of the early communications efforts. Mater releases to targeted statewide media are echoed in locally tailored messages for community media as well. Such strategic targeting and aggressive campaigns are planned.

Project Deliverables: The Program will execute a comprehensive program that includes at least one outreach and support activity in each of the above categories.

Training & Information Sharing

As municipalities register on the Sustainable Jersey™ Web site and enter into the program, they are “polled” to determine on what actions and issues they would like to receive training. This information, along with input gathered in feedback sessions will be used to develop the 2011 training program. NJSSI and MLUC@TCNJ will develop training content that leverages the skills, knowledge and expertise of leading New Jersey organizations and businesses as well as State and Federal agencies. Special emphasis will be directed toward supporting information and outreach activities to highlight CEP areas that target municipalities, or would benefit from promotion by municipalities. Training will also be linked to appropriate municipal certification and training programs with the intent of integrating training workshops into preexisting municipal training models. Training sessions will be hosted as collaboratively sponsored events between CEP and Sustainable Jersey™, and appropriate affiliate and professional organizations associated with municipal government. Workshops will be held throughout the year, and in all parts of the state, to assure access to training that is responsive to municipal time and travel constraints. Sustainable Jersey™ will also work with the NJBPU and its Market Managers to develop co-branded training and outreach sessions to ensure that municipalities are able to take advantage of the latest incentives and programs.

Project Deliverables: At least five training sessions addressing CEP programs will be held.

Program Administration

Task 1: Certification Program Administration: 2011work will include administering the certification program – as opposed to designing and building one – will become a new and on-going activity. This task will include:

- Reviewing applications, tracking participants, researching problematic submissions and making certification decisions
- Verifying progress reported by municipal applicants
- Maintaining communication with all partners and participants to sustain progress, identify and report success, and reduce barriers
- Answering questions and providing assistance to municipalities working through the process
- Record keeping
- Updating the Sustainable Jersey™ website
- Administering the awarding of successful municipalities with the certification

Task 2: Stakeholder Process: Administering the process used to develop the content of Sustainable Jersey™. A Sustainable Communities Working Group (SCWG) was formed to help create the Round One and Two Actions in The Program. The goal for each Task Force is to identify meaningful actions that communities can and should implement or “criteria” that will serve as the benchmark by which communities are measured to assess their progress toward becoming sustainable. The work of each of the Task Forces is combined and assessed collectively to develop a final list of actions and tools that constitute the current list of Sustainable Jersey™ Actions.

Establishing criteria defining sustainable communities will be an ongoing effort with different tiers and entry points. Tools are developed and refined as part of ongoing reviews and presented annually at the League of Municipalities Conference. Rounds incorporate the extensive resources and input. The Sustainable Communities Working Group continues to build and bring together businesses, academic institutions, nongovernmental organizations and state and federal agencies to support and participate in this work.

Format, language, style, and content of each action are tailored to fit the needs of mayors and local officials. Materials provided to mayors are formatted so they can absorb the information and hand it off to the appropriate staff or volunteer group for implementation. All tools are reviewed by the SCWG and the MCGF in order to produce a product that will be most useful to the audience.

During this contract period the SCWG will be reconvened to aid in the development of a new round of actions and tools for Sustainable Jersey™. In past rounds criteria focused on actions and resources that are applicable to every community regardless of size or character. Subsequent rounds will start to identify criteria and actions municipalities can address that are more tailored to the type of communities and specific program focus areas. This process will:

- Identify and integrate all existing and emerging State Government and NJBPU programs into Sustainable Jersey™ to drive municipal participation
- Develop a points system for State Programs in Sustainable Jersey™
- Work with state and local officials to develop incentives and rewards for that are effective drivers for municipalities

- Update the website, and draft complete new actions, tools, resources, and guidance material for each program area that cross-link to external websites, grants, program and resources

Project Deliverables: Sustainable Jersey will maintain a program administration and municipal support center providing all of the above services for the duration of the contract period. All client contracts will be tracked. The Sustainable Communities Working Group will be convened and the "actions" will be updated and revised accordingly.

Monitoring and Evaluating Individual Efforts

On-going support for using the Sustainable Jersey™ tools, satisfying the criteria, and receiving incentives, will be provided to municipalities participating in The Program, and will also be open to the general public. This task will include:

- Documenting requests for information and technical assistance;
- Updating the tools as best practices and resources (such as new government programs) change;
- Recording feedback and trouble-shooting issues as municipalities implement actions;
- Providing direct expert assistance to municipalities attempting to implement programs and move through the certification by phone and via email; and
- Coordinating these activities with CEP and Market Managers as appropriate

Project Deliverables: The above activities will be in place throughout 2010, and feedback and troubleshooting will be turned into a FAQ and Getting Started Guide and posted on the website, and all communications will be tracked.

Program Marketing and Communications

Sustainable Jersey™ will promote these programs through its Web site, events and member outreach in the coming year. Upcoming Sustainable Jersey™ events will provide a platform for focused outreach and promotional opportunities moving forward. The Sustainable Jersey™ partners will recognize the outstanding achievements of certified municipalities at a special Sustainability Awards Luncheon on that will be held at the League of Municipalities Annual Conference in November. As this same event, Sustainable Jersey™ will host a series of workshops for interested municipalities, staff up to a dozen consulting tables and roll out the next levels of certification for the program. A strategic media approach will be developed to plan for these events and future program promotion to broadcast, on-line and print media outlets.

A comprehensive communications plan will be implemented to move The Program forward in the coming year. The plan will review past outreach and promotion and recommend current communications strategies, materials and tools. For example, a Sustainable Jersey™ e-newsletter and social media postings are planned to inform, engage and inspire supporters of The Program. A quarterly HTML e-newsletter template, which mimics the Sustainable Jersey™ Web site and includes website navigation, will serve as means of attracting viewers to the site. Each quarterly issue will feature a "theme of the quarter." The e-newsletter is a cost-effective and "green" method of reaching large audiences with

“real time” information. The following components may be used consistently in each issue: a welcome message from program partners, a listing of all participating organizations or registered communities, a “spotlight” feature that focuses on the best practices of a partnering/participating organization, or champion, a listing/calendar of upcoming events and a “get involved” section and contact. Shorter and more frequent posts, tweets and status messages will augment this news and dramatically increase the “viral” potential for The Program’s news and information and deeper “mindshare” penetration as interested groups and individuals can easily and immediately repost the material in ways more people will see.

Readiness on the part of program partners and local municipalities to communicate about the Sustainable Jersey™ program will greatly impact its success. To ensure readiness, an engaging Sustainable Jersey™ Communications Tool Kit will be developed to guide the user through the communication program process, makes readily available all of the program communications tools, and instills knowledge and learning about “how to” implement the various pieces of the communication program. The communications tool kit will include easy-to-download PDFs of relevant information documents, press releases that can be packaged for use by local municipalities and more.

Project Deliverables: A strategic communications and marketing program will be implemented throughout the year, and will culminate in a high profile Awards Luncheon on that will be held at the League of Municipalities Annual Conference .The Program will include communications support to municipalities with an e-newsletter and social media distribution.

Expanding Private Sector Approaches to Energy Savings and Renewable Energy Generation

Energy Savings Improvement Programs (ESIPs) and performance contracting are theoretically a cost effective way to implement energy efficiency upgrades for local government entities with no public funds. Many similar instruments exist. However, there are significant hurdles to the widespread implementation of these programs. We believe that we can implement a series of programs that, with minimal public funds, will result in the majority of municipalities undertaking a wide array of energy efficiency building upgrades.

Energy Savings Improvement Programs: ESIPs and performance contracting for energy are still poorly understood in local governments. In addition to all the other approaches described below, we would engage in a focused effort to promote ESIPs and increase their utilization in the public sector.

Technical Support and Financial Analysis: Due to the technical sophistication needed to utilize the best financial instruments, many municipalities are making poor choices for financing efficiency and generation measures. Other municipalities are not moving forward at all due to indecision. Utilizing academic rigor, and a clear public interest, we would produce white papers and fiscal analysis of different financial instruments, and model scenarios for implementing available energy generation and efficiency measures.

Training and Representation: In addition to written guidance and analysis, Sustainable Jersey could engage contractors and experts to represent and support municipalities in securing private financing for their energy upgrades. This could happen in various forms, ranging from workshops and technical support where we provide expertise to municipalities, to organizing local governments into cohorts and provide representation for them to engage in group purchasing. Organizing a cohort will result in significant economies of scale and lowered opportunity costs for both the ESCO contractor, as well as the municipalities. TCNJ will engage representation for the municipalities to take the lead in contract negotiations with the ESCOs.

Project Deliverables: Produce a white paper with fiscal analysis and guidance in various renewable energy and energy efficiency financing options for local governments, conduct a minimum of three workshops and trainings, and one webinar, providing direct support to municipalities explicating financing options. Organize a cohort of local governments and support them to engage in performance contracting. This will include organizing the cohort, engaging representation for them in contract negotiations, and moving them through to a completed contract.

Researching New Policy Directions

This appropriation will enable us to research and fully develop actionable programs which will be presented as recommendations to the Board. This will include developing a menu of specific programmatic options that can be implemented, each with a cost estimate and an estimate of associated benefits. We will explore three major programmatic approaches to achieving our clean energy goals. The approaches are often complimentary and can be mixed and matched based on the direction from the Board, and the results of our research:

1. Incentives: The CEP provides a significant number of incentive based programs. We believe that these programs could be streamlined and built upon to secure greater results. Three main strategies to accomplish this are:
 - I. Streamlining and Consolidation: Existing programs such as “benchmarking” Direct Install, Smart Start, Community Partners, each exist independently. We propose to improve the starting point for local governments so that it more clearly markets all of the programs as a package, details how they relate to each other and how to identify which is best for them, and outlines initial steps for moving forward.
 - II. Building Ongoing Capacity: Current incentive programs pay for a specific measure, but do not build the ongoing capacity of municipalities to make continuous progress. The value of current incentive programs could be increased by orders of magnitude if they also were linked to capacity building measures. This could include making access to incentive funds contingent on:
 - a) Municipalities completing a building inventory and assessment, and benchmarking all their buildings with Energy Star Portfolio Manager
 - b) Requiring or prioritizing municipalities to create a dedicated reinvestment fund with the savings

- c) Requiring or prioritizing municipalities have an energy manager. This could be a shared service among municipalities that is financed by energy savings at no cost to taxpayers. The Sustainable Jersey program could facilitate the provision of services
- III. Leveraging Incentive Programs: Building on existing programs such as Smart Start, Direct Install, and the Local Government Energy Audits, we propose to go farther by linking access to incentives with participation in other similar cost and energy saving activities developed within Sustainable Jersey such as:
- a) Developing a municipal fleet inventory and efficiency assessment
 - b) Adopting smart government behavior policies like mandatory double sided printing in municipal facilities
 - c) Adopting Green Building standards
 - d) Purchasing Energy Star equipment and appliances
2. Expanding Private Sector Approaches and Alternative Financial Instruments: Energy Savings Improvement Programs (ESIPs) and performance contracting are theoretically a cost effective way to implement energy efficiency upgrades for local government entities with no public funds. Other options such as PACE financing, subsidized loans, revolving loan funds, also have shown promise. Many similar instruments exist.
- I. Capitalizing an Investment Fund: Finance the energy efficiency upgrades with financial instruments developed in-house or with contracted partners, using private or public funds, or state guarantees to lower the carrying cost of private funds, and increase the benefits of upgrades that accrue to tax payers. Savings generated by the upgrades will be used to repay the initial investments. The net savings, or profits, would all accrue to the local government and the tax payers. This allows us to better direct the process to ensure efficiency, and to ensure that the benefits accrue to the public.
 - II. Property Assessed Clean Energy, Community Capital and Other New Approaches: A cadre of new approaches are being piloted in neighboring states and across the country that attempt to capture the value of energy upgrades, and overcome structural barriers and opportunity costs for residents, businesses, and local governments. Some, such as PACE financing require legislation. Others can be accomplished within the private sector. We would explicate what is known about the approaches, costs and benefits, and assess opportunities and barriers to implementation in New Jersey.
3. Economies of Scale and Shared Services: Some municipalities have found success working with counties to do joint Power Purchase Agreements (PPAs) or engage expertise needed for smart energy management. However, this is not available to all

local governments, and each effort may not be utilizing best practices. We would extend this approach:

- I. Facilitate additional group PPAs among groups of local governments, make it available to all local governments in all counties, and ensure that best practices are being utilized
- II. Extend such activities to include energy savings as well as generation
- III. Energy managers: In larger municipalities, a professional energy manager generally identifies cost savings well in excess of their salary. However, most NJ municipalities are too small to support a full-time manager. A program facilitating shared services with local governments as groups could accelerate savings and efficient government. This could be done as cohorts of municipalities, at the county level, or other units of aggregation.

Project Deliverables: We will present to the Board a report with a list of policy and programmatic options for new directions and adaptations of existing programs. The report will include cost benefit analysis for each option and recommended measures for implementation.

5. Budget Narrative

To implement the program functions, \$625,000 is requested. Funding will be used for recruitment efforts to increase participation rates; support the development and improvement of new actions and integration of actions with state programs; support workshops and technical support to local governments, support local government utilization of Performance Contracting, conduct research on the cost benefit of new programmatic directions; and generally manage the program.

The Municipal Land Use Center will implement the program described. The New Jersey League of Municipalities Educational Foundation, a partner in Sustainable Jersey, will serve as a sub-contractor that conducts outreach and promotional activities for the program. The NJLMEF is uniquely qualified to conduct this role due to their gravitas and credibility with local governments, and the extensive experience as a founding program partner.

The work of the Energy Aggregator will be to provide support to municipalities working through State Energy Savings Improvement Programs. The contract will be competitively bid according to normal TCNJ and State of NJ procedures.

Energy Efficiency Programs Sustainable Jersey MLUC@TCNJ	Proposed 2010 Budget	Administration, IT, and Program Development	Evaluation and Related Research
Sustainable Jersey Program and CEP Coordination	\$305,000	\$285,000	\$20,000
NJLMEF Sub-contract	\$100,000	\$100,000	
Energy Aggregator	45,000	45,000	
Expanding Private Sector Approaches	\$125,000	\$120,000	\$5,000
Researching New Policy Directions	\$50,000	\$50,000	\$0
Total	\$625,000	\$600,000	\$25,000

Attachment B: EDA Programs

New Jersey Economic Development Authority 2011 Clean Energy Programs

In 2011, the New Jersey Economic Development Authority (EDA) will be administering three Clean Energy programs: The Edison Innovation Clean Energy Manufacturing Fund, The Edison Innovation Green Growth Fund, and the Clean Energy Solutions Energy Efficiency Revolving Loan Fund. Each of these programs is described more fully below.

The Edison Innovation Clean Energy Manufacturing Fund (CEMF) program offers assistance in the form of low-interest loans and non-recoverable grants to companies manufacturing renewable energy, clean and energy-efficiency products in New Jersey. The CEMF will ultimately provide New Jersey consumers with greater access to these products by developing manufacturing facilities in New Jersey. The EDA will also continue to look to offer an incentive to the CEMF program that seeks to modify the Renewable Energy Manufacturing Incentive (REMI) program for manufacturers. Currently, Organizations awarded a grant under CEMF are automatically certified as a New Jersey manufacturer through the REMI program. A full description of this program follows.

The Edison Innovation Green Growth Fund (EIGGF) program offers assistance in the form of loans to clean technology companies that have achieved ‘proof of concept’ and have achieved successful, independent beta results and are seeking funding to grow and support their technology business. The EIGGF will ultimately provide New Jersey consumers with greater access to these products by developing emerging technologies in New Jersey. A full description of this program follows.

The Clean Energy Solutions Energy Efficiency Revolving Loan Fund (EERLF) program offers assistance in the form of low-interest loans to qualified Commercial and Industrial sector applicants looking to make comprehensive whole building energy efficiency upgrades. This loan program is structured as a companion to the NJCEP Pay for Performance (PFP) incentive program to provide up to 100% qualified project cost financing up to an 80% loan (\$2.5 million per awardee cap). This program requires applicants to have an OCE-approved Energy Reduction Plan that includes minimum energy reduction requirements. Additionally, should a C&I Large Energy Users Self-Directed Pilot Program become available in 2011, customers eligible for that program would also be eligible for the EDA EE RLF program. A full description of this program follows.

Glossary of terms:

- Beta – In the technology industry, this is a second-phase test of new software, equipment or application in a live operating environment conducted by testers other than its developers (often potential customers). This process helps to pinpoint flaws prior to full-scale market introduction.
- Cash Match – Financing - generally equity financing - from a third party, at a minimum, financing without current interest payment and which also has a subordinate collateral position.
- Negative Pledge – Prohibits a borrower from providing a security interest or pledging any rights to their intellectual property.
- Springing Lien – A property lien to secure the payment of a debt or performance of some other obligation that is activated only if the business in question defaults on its obligations.
- Valley of death – Is an industry nomenclature for companies which have passed a proof of concept and are at the point in their life cycle where they are looking to raise their first round of private capital and bring their products to market and scale.

Edison Innovation Clean Energy Manufacturing Fund

Program Description

The Edison Innovation Clean Energy Manufacturing Fund (CEMF) program offers assistance in the form of low-interest loans and grants to companies manufacturing renewable energy, clean and energy-efficiency products in New Jersey. The CEMF will ultimately provide New Jersey consumers with greater access to these products by developing manufacturing facilities in New Jersey.

Products manufactured under this program ultimately benefit the New Jersey consumer by providing long-term energy products locally, thereby reducing environmental impact through reduced transportation and by facilitating competitive and diverse electricity supply for New Jersey. The program provides support for manufacturing of energy efficient products and renewable energy products that will assist Class I renewable energy in becoming competitive with traditional sources of electric generation.

Background

The New Jersey Board of Public Utilities Office of Clean Energy (OCE) and the New Jersey Economic Development Authority (EDA) have been administering New Jersey's Clean Energy Programs including Renewable Energy Programs, which are designed to promote the development and installation of renewable energy projects statewide. The OCE will be able to leverage the financial expertise of the EDA that provides funding for manufacturers in New Jersey and to early stage technology companies specializing in clean technologies via its Edison Innovation Fund Programs.

Target Market/Eligibility

The recipients of the CEMF are companies manufacturing renewable energy and energy-efficiency products in New Jersey with their target markets including investor-owned utilities, municipalities, co-operatives, system integrators, installers and private-label customers/original equipment manufacturers or out of state or out of country manufacturers looking to start a manufacturing facility in NJ given the states robust clean energy community. Renewable Energy products under the CEMF must contribute to the cost-competitiveness of renewable energy in New Jersey, and other tangible ratepayer benefits such as economic development, environmental benefits, etc. from either the production or the direct use of the applicant's products.

Eligible technologies for funding under the CEMF include energy efficiency equipment and technology that reduce electric or natural gas consumption, such as furnaces, boilers, and air conditioning systems with higher efficiencies than energy codes or standards, as well as lighting systems, including LED lights and energy monitoring and control systems, limited to those which conserve the end use of gas or electricity. Eligible renewable energy technologies are: photovoltaic technologies, wind energy, renewably fueled fuel cells, wave, tidal, renewably generated hydrogen, sustainable harvested biomass and other technologies that can demonstrate their integral nature to the development of Class I renewable energy technologies that produce or support the production of renewable or clean electricity generation.

For the CEMF, applicants must be a for-profit company that currently, or plans to, manufacture eligible renewable energy or energy efficient technology products in New Jersey and is entering or expanding with the manufacturing stage of commercial development. Proposals to manufacture products that are not beyond the prototypes or pre-commercialization phase are not eligible. Modifications to existing manufacturing lines will not be considered (however, material expansions to current manufacturing lines may be considered). Funding for prototype or beta stage manufacturing will also not be considered. Funds will be used for identifying and securing a site and to obtain the necessary permits and regulatory approvals, and for capital equipment, leasehold improvements, and engineering and construction services related to such equipment and improvements, and, potentially, increase in inventory. The use of NJ contractors, suppliers, labor and products are preferred. Non-project costs – such as interest expense on loans - are not considered to be eligible under this program. All projects must be in compliance with all applicable laws.

This program requires a firm commitment of a 50% cash match of total project costs from other non-State third party sources of funding for cost sharing, either from grants, loans, or equity, for meeting the total renewable energy/energy efficiency project expenditures. If the matching funds are not reported on the applicant's balance sheet at the time of application, a written letter of interest (LOI) must be provided for the 50% cash match. This policy is intended to encourage applicants to seek collaborators that can provide additional resources and expertise that will increase the likelihood of commercial success.

Program Offering and Incentives

Total funds awarded are subject to a maximum of \$3,300,000 per each company project with funds advanced under two tranches. This program offers traditional grants – up to 10% of total CEMF funds requested not to exceed \$300,000 – as well as performance grants up to \$1 million or one-third of a 2% interest loan up to a maximum \$3 million per project. The former is funded according to the applicant meeting pre-determined employment and production or sales milestones during the disbursement period subsequent to the closing of the CEMF funding.

Tranche I - Project Assessment and Design (A&D)

These funds are to be advanced to identify and secure a site (either a lease or purchase), complete initial project facility design, and to obtain the necessary permits and regulatory approvals to operate the facility. Funds are to be allocated up to \$300,000 per each company project with a minimum of a 50% cash match of total project costs from other financial sources. Up to 10% of the total CEMF funds requested – not to exceed \$300,000 - will be funded under this specific A&D tranche. At closing of the grant, twenty (20%) percent of the approved funds will be advanced for upfront seed money with the remainder paid after work has been completed upon submission of invoices.

Tranche II - Project Construction and Operation (C&O) 2% Interest Loan with Performance Grant

These funds are to support site improvements, equipment procurement and facility construction and completion. A preference will be given to those projects that demonstrate a greater

percentage of the project being designed, manufactured, processed, assembled or made ready for commercial sale at the applicant's facilities within New Jersey. The total amount awarded under this tranche is up to a maximum \$3 million per each company project with a minimum 50% match of these total project costs from firmly committed, non-state-derived matching support. No more than 50% of funds requested may be advanced prior to commercial production.

Up to a maximum \$3 million 2% interest loan as evidenced by a loan note shall be repaid with repayment starting on the first month of year four, with interest accruing in the prior periods. The loan will fully amortize in equal monthly payments over the remaining periods of the 2% interest loan repayment period. Any unpaid balance will be due at the 10-year anniversary if not previously paid in the course of amortization. One-third or 33.33% of the C&O 2% interest loan not exceeding \$1 million may be converted to a performance grant with no terms of repayment. This condition is subject to the applicant meeting all pre-determined milestones during the 36-month disbursement period subsequent to the closing of the CEMF funding. These milestones will be deemed satisfactorily completed, in their sole discretion, by the BPU or designated market managers monitoring the project.

Program Delivery

The award of grants and low interest loans from the Edison Innovation Clean Energy Manufacturing Fund shall include: advertisement inviting qualified applicants to submit proposals, a defined process for receiving such proposals and an evaluation process based on established criteria by an objective and disinterested advisory committee.

The EDA will accept the program applications on a rolling basis. There will be a pre-application intake form for technical screening followed by a full application for those successful pre-applicants. Applicants that submit a complete application and meet the evaluation criteria will be asked to make a project presentation to a Clean Technology Advisory Committee comprised of EDA, BPU, and representatives from other government entities and industry volunteers with EE and/or RE and business technology subject matter expertise. The Clean Technology Advisory Committee will review and advise based upon the Applicant's presentation and ability to meet the evaluation criteria.

Applicants successfully meeting all the program criteria, receiving a positive review from the clean technology advisory committee based on the program eligibility and conditions, the evaluation criteria and successfully completing the due diligence process, will be underwritten and presented to the BPU Board for consideration. Both the EDA and the BPU will jointly notify all applicants.

CEMF Proposals must document the approach, plans and strategies intended to meet project goals including:

- Technical project information and benefits
- Business plan including financial projections
- Proposing team and qualifications (including manufacturing experience)
- Project procedural steps to accomplish the project milestones
- Project Budget including schedule of matching funds

Applications will be subject to an extensive financial and technical due diligence. Final approval of the project grants and 2% interest loans will be by BPU's Board. EDA will arrange for the issuance of all 2% interest loans and grants to award recipients and will perform the documentation closing of all CEMF zero interest loans and grants.

Planned Program Implementation Activities for 2011

The following program implementation activities will be undertaken in 2011:

- Manage all aspects of a rolling online solicitation with 2011 program funding. The rolling solicitation is expected to be a 6-month process from application submittal until award recipients are announced.
- Develop and distribute educational and marketing promotion materials with the BPU.
- Draft press releases and any other public announcements with the BPU.
- Implement system enhancements for processing applications, project information and quarterly reporting to the BPU in compliance with BPU IMS accounting and reporting requirements.

Quality Control Provisions

The OCE and/or its market managers if directed by BPU with expertise in renewable energy and energy efficiency technologies will assist in prescreening the applications and have the authority to reject all applications that do not meet the technical eligibility guidelines for technologies promoting energy efficiency and renewable energy programs as set forth at N.J.S.A., 48:3-49 et seq, the Electric Discount and Energy Competition Act.

As part of the final evaluation committee, the OCE and/or its market managers will conduct a full application review of meeting requirements of technical criteria. Subsequent to this technical review, a Clean Technology Advisory Committee comprised of EDA, BPU, and representatives from other government entities and industry volunteers with EE and/or RE and business technology subject matter expertise will attend individual presentations by the applicants and advise based upon the Applicant's presentation and ability to meet the evaluation criteria. The OCE and/or its designated market managers will be consulted to conduct field inspections and monitor the project and its milestone deliverables for compliance with program technical requirements.

Program Budget

The approved 2011 budget for CEMF is \$11,000,000 in new 2011 funds. EDA will comply with the BPU IMS accounting and reporting requirements. A budget breakdown for this program is included in the OCE compliance filing budget.

A \$660,000 annual EDA fee is approved for EDA administrative services in support of the CEMF program, the new EIGGF program, and the new EE RLF programs combined. The existing MOU between BPU and EDA would need to be amended accordingly for these programs.

Marketing Plans

- The EDA jointly with the BPU will develop marketing materials for distribution and update websites, including industry databases, for announcement of the solicitation.
- Promote the solicitation at educational and networking events with potential participants and industry stakeholders.

Program Goals and Performance Indicators

The goals of this program include leveraging public and private resources for advancing the technologies and services necessary to support vibrant energy efficiency and renewable energy industries in New Jersey in accordance with the NJ Governor's Energy Master Plan and New Jersey's implementation of the Regional Greenhouse Gas Initiative (RGGI), P.L. 2007, c.340, and the "Global Warming Response Act", P.L. 2007, c.112, which sets long-term goals for reducing greenhouse gas emissions in New Jersey. The State of New Jersey Energy Master Plan aims to meet 20% of its energy needs through Class I renewable energy by 2020 and reduce electricity and heating consumption 20% by 2020. It is therefore the mission of the Clean Energy Manufacturing Fund to decrease electricity and heating costs, improve electric reliability and maximize economic and environmental benefit to New Jersey's ratepayers by driving down the cost of key market-transforming efficiency and renewable energy technologies.

Achieving this mission includes:

- Providing a range of tools to integrate policies across programs for research and development support, gap funding, equity investments, and stimulating market demand
- Developing a balanced clean energy industry cluster
- Supporting technologies that will provide the most benefit to New Jersey ratepayers
- Building upon consumer choice

Expected benefits of the CEMF are to include: increasing the number of renewable energy and energy efficiency manufacturing jobs in New Jersey by encouraging expansion of current manufacturers and to provide sufficient incentive to other manufacturers to locate in New Jersey; stimulating economic development in the New Jersey renewable energy and energy efficiency sector through demand for goods and services by manufacturers; and increasing the volume of renewable energy and energy efficient products manufactured in New Jersey to New Jersey consumers.

Performance Indicators

- Number of jobs created in the renewable energy and energy efficiency sector in NJ
- Number of new renewable energy and energy efficiency manufacturers that locate and/or expand in New Jersey
- Amount of renewable energy and energy efficient products manufactured in New Jersey
- Contribution to lowering the cost of renewable energy and energy efficiency systems

Goals for the program include the following:

- Solicit at least 10 applications and target 4 awards. Focus will be to provide manufacturing match funding for a broad range of eligible renewable energy and energy efficiency technologies.

- Provide program information in order to attract qualified applicants at state, regional and national renewable energy and energy efficiency forums, publications and/ or websites.

Edison Innovation Green Growth Fund

Program Description

The Edison Innovation Green Growth Fund (EIGGF) program offers assistance in the form of loans and grants to Class I Renewable or Energy Efficient clean technology companies that have achieved ‘proof of concept’ and have achieved successful, independent beta results and are seeking funding to grow and support their technology business. The EIGGF will ultimately provide New Jersey consumers with greater access to these products by developing emerging technologies in New Jersey.

Products and services under this program will ultimately benefit the New Jersey consumer by providing long-term alternative energy needs in an environmentally sound manner and by facilitating competitive and diverse electricity supply for New Jersey. The program provides support for businesses looking to launch newly discovered energy efficient, renewable energy of supply chain products that will assist Class I renewable energy or energy efficient technologies in becoming competitive with traditional sources of electric generation.

Expected benefits of the EIGGF are to include: increasing the number of renewable energy and energy efficiency businesses in New Jersey by encouraging expansion of the current pool of clean energy companies and development of clean energy technology products; providing sufficient incentive to other clean energy companies to locate in New Jersey; and stimulating economic development in the New Jersey renewable energy and energy efficiency sector. It is also to be certain that the businesses which are creating the newest technology have adequate capital resources to penetrate the commercial markets and survive “the valley of death.”

Background

The New Jersey Board of Public Utilities Office of Clean Energy (OCE) and the New Jersey Economic Development Authority have been administering New Jersey’s Clean Energy Programs including Renewable Energy Programs, which are designed to promote the development and installation of renewable energy projects statewide. The OCE will be able to leverage the financial expertise of the EDA to provide funding to growth stage clean technology companies. This program also compliments the existing CST program which provides funding to early stage technology companies specializing in clean technologies via its Edison Innovation Clean Energy Fund, which is for pre-commercialization stage companies.

Target Market/Eligibility

The recipients of the EIGGF will be New Jersey clean technology companies that have achieved ‘proof of concept’ and have achieved successful, independent beta results, developing renewable energy and/or energy-efficiency products which are proprietary to the company and protected via a patent, trademark or license. Renewable Energy products under the EIGGF must contribute to the cost-competitiveness of renewable energy in New Jersey, and other tangible ratepayer benefits such as economic development, environmental benefits, etc. from either the production or the direct use of the applicant’s products.

Eligible technologies for funding under the EIGGF include energy efficiency equipment and technology that reduce electric or natural gas consumption, such as furnaces, boilers, and air conditioning systems with higher efficiencies than energy codes or standards, as well as lighting systems, including LED lights and energy monitoring and control systems, limited to those which conserve the end use of gas or electricity. Eligible renewable energy technologies are: photovoltaic technologies, wind energy, renewably fueled fuel cells, wave, tidal, renewably generated hydrogen, sustainable harvested biomass and other technologies that can demonstrate their integral nature to the development of Class I renewable energy technologies that produce or support the production of renewable or clean electricity generation.

For the EIGGF, Company must be a developer/owner of protected proprietary technology. Companies will be required to employ 75% of its W-2 employees in New Jersey or will commit to growing 10 high paying jobs over two years (minimum salary of \$75k). Further, the company must be willing and able to create high skill, high paying jobs in New Jersey. The company will be required to have a management team that works full time only at that company and has applicable industry experience, as well as a management team or working founders with a financial investment in the company. The Company must have an independent third party who can serve as a positive beta reference and must have generated revenues from the EE or RE technology.

This program requires a firm commitment of a 1 to 1 cash match of equity or very deeply subordinated debt from arms-length third party sources. This policy is intended to encourage applicants to seek collaborators that can provide additional resources and expertise that will increase the likelihood of commercial success as well as serving as another vetting/due diligence source on the business and management team.

Program Offering and Incentives

Total funds awarded are subject to a maximum of \$1,000,000 per each company in the form of subordinated convertible debt. The EDA will subordinate its lien position to any current senior bank debt, file a UCC 1 filing statement on the assets of the company, and require a negative pledge and a “springing lien” on the Intellectual Property. With the positive performance of the company (to be determined upon specific benchmarks prior to closing and may include, but may not be limited to employee and revenue hurdles), up to 50% of the funding may be converted to a performance grant at the end of year five. In addition, the EDA will allow future automatic subordination of 25% of the commitment amount for new senior debt. Any amounts above this 25% require the prior written consent of the EDA.

Interest rates for this program will be fixed for a five-year term, based on risk profile and location of the company, ranging from 2-10%. Repayment terms will be customized, based upon the stage of the Company and the pro-forma financials, with the ability to defer principal and/or interest up to two years, with a back ended full payout of principal plus interest by maturity in year five. Once approved, financing is staged in over the first 12 months and is based upon business that are specific to each Company. Financing also includes a negative pledge on the intellectual property, with a “springing lien” in the event of a default. Outside funding is required to cover business expenses beyond the Edison Green Growth Fund.

Program Delivery

The award loans from the Edison Innovation Green Growth Fund shall include: completion of an EDA application for financial assistance from the applicant, a technical review of the technology by an established Clean Technology Advisory Committee, and a complete underwriting of the applicant company.

The EDA will accept the program applications on a rolling basis. There is no application deadline as applications are reviewed as received. All potential applicants should be speaking with an EDA representative prior to applying for funding to determine eligibility. There will be an application fee and the EDA's on line application will be utilized. The EDA, with the aid of the Evaluation committee will be reviewing the business plan and financial model of the company for competitive advantage, business execution, ability to grow high paying jobs in NJ and to support the renewable and energy efficient industry in NJ.

After the EIGGF review process is completed and is deemed positive by the Evaluation Committee, an underwriting proposal prepared by the EDA will be submitted to the BPU Board for approval. EDA will jointly notify all applicants.

The EIGGF application will be the standard application for financial assistance utilized by the EDA. EIGGF applications must include the following information (other additional information may be requested):

- Company business plan
- Historical Financial Statements including balance sheet, cash flow projections & capitalization chart
- 3 year- monthly pro-forma financial statements including balance sheet, income statement and cash flow
- Technology and business commercialization plan with fully articulated milestones
- Patent(s) and Documentation of Ownership by Applicant
- Evidence of committed Applicant Matching Funds, received within 90 days prior to the application date to the EDA
- Complete Strengths, Weaknesses, Opportunities, and Threats (SWOT) Analysis
- Resumes for all key personnel

Once approved, financing will be staged in over the first 12 months and will be based upon business-based milestones that are specific to each Company.

Applications will be subject to an extensive financial and technical due diligence. Final approval of the project loans will be by BPU's Board. EDA will arrange for the issuance of all loans to award recipients and will perform the documentation closing of all EIGGF loans. EDA will also manage the loan portfolio post closing.

Planned Program Implementation Activities for 2011

The following program implementation activities will be undertaken in 2011:

- Manage all aspects of the application and review process with 2011 program funding.
- Develop and distribute educational and marketing promotion materials with the BPU.
- Draft press releases and any other public announcements with the BPU.
- Implement system enhancements for processing applications, project information and quarterly reporting to the BPU in compliance with BPU IMS accounting and reporting requirements.

Quality Control Provisions

The OCE and/or its market managers with expertise in renewable energy and energy efficiency technologies will assist in prescreening the applications and have the authority to reject all applications that do not meet the technical eligibility guidelines for technologies promoting energy efficiency and renewable energy programs as set forth at N.J.S.A., 48:3-49 et seq, the Electric Discount and Energy Competition Act.

Applicants that submit a complete application package and meet all the evaluation criteria will be asked to make a project presentation to a Clean Technology Advisory Committee comprised of EDA, BPU, representatives from other government entities and industry volunteers with EE and/or RE and business technology subject matter expertise. The Clean Technology Advisory Committee will review and advise based upon the Applicant's ability to meet Evaluation Criteria. Applicants successfully meeting all the program criteria, a positive review from the Clean Technology Advisory Committee based on the program eligibility and conditions, the evaluation criteria and the due diligence process will be presented to the BPU Board for consideration. The EDA will administer the underwriting, closing and disbursement of funds to the Awardees.

The OCE and/or its designated market managers will be consulted to conduct field inspections and monitor the project and its milestone deliverables for compliance with program technical requirements.

Program Budget

The approved 2011 budget for EIGGF is \$4,000,000 in new 2011 funds. EDA will comply with the BPU IMS accounting and reporting requirements. A budget breakdown for this program is included in the OCE compliance filing budget.

A \$660,000 annual EDA fee is approved for EDA administrative services in support of the new EIGGF program, the CEMF program, and the new EE RLF programs combined. The existing MOU between BPU and EDA would need to be amended accordingly for these programs. The existing MOU between BPU and EDA would need to be amended to incorporate this new program. A 3% EDA fee for administrative services is approved for this program, structured as 1% on available/uncommitted cash balance and 2% on approved commitments and outstanding exposure.

Marketing Plans

- The EDA jointly with the BPU will develop marketing materials for distribution and update websites, including industry databases, for announcement of the solicitation.
- Promote the solicitation at educational and networking events with potential participants and industry stakeholders.

Program Goals and Performance Indicators

The goals of this program include leveraging public and private resources for advancing the technologies necessary to support vibrant energy efficiency and renewable energy industries in New Jersey in accordance with the NJ Governor's Energy Master Plan and New Jersey's implementation of the Regional Greenhouse Gas Initiative (RGGI), P.L. 2007, c.340, and the "Global Warming Response Act", P.L. 2007, c.112, which sets long-term goals for reducing greenhouse gas emissions in New Jersey. The State of New Jersey Energy Master Plan aims to meet 20% of its energy needs through Class I renewable energy by 2020 and reduce electricity and heating consumption 20% by 2020.

It is therefore the mission of the Edison Innovation Green Growth Fund to decrease electricity and heating costs, improve electric reliability and maximize economic and environmental benefit to New Jersey's ratepayers by driving down the cost of key market-transforming efficiency and renewable energy technologies.

Achieving this mission includes:

- Providing a range of tools to integrate policies across programs for research and development support, gap funding, equity investments, and stimulating market demand
- Developing a balanced clean energy industry cluster
- Supporting technologies that will provide the most benefit to New Jersey ratepayers
- Building upon consumer choice

Expected benefits of the EIGGF are to include: increasing the number of renewable energy and energy efficiency technology companies in New Jersey by encouraging growth in New Jersey; stimulating economic development in the New Jersey renewable energy and energy efficiency sector through demand for goods and services by manufacturers; and increasing the volume of renewable energy and energy efficient products manufactured in New Jersey to New Jersey consumers.

Goals for the program include the following:

- Solicit at least 8 well qualified applications and target 4 awards. Focus will be to provide growth capital for companies which have proven their technology on a limited scale, and give them adequate financial resources to bring their technology product to full scale production and creates market penetration. The focus will also be to bring financial incentives from a broad range of eligible renewable energy and energy efficiency technologies to allow for a diverse renewable and energy efficient portfolio of technology companies in New Jersey.
- Provide program information in order to attract qualified applicants at state, regional and national renewable energy and energy efficiency forums, publications and/ or websites.

Clean Energy Solutions Energy Efficiency Revolving Loan Fund

Program Description

The Clean Energy Solutions Energy Efficiency Revolving Loan fund (“EERLF”) program provides financial support in the form of low-interest loans for commercial, institutional and industrial entity end-use energy efficiency building projects in New Jersey with peak demand in excess of 200 kW in any of the preceding twelve months that have the potential to reduce source energy use by at least 15%. This low interest loan program is structured as a companion to the NJCEP Pay for Performance (PFP) incentive program, which is designed to provide grant incentives to large commercial and industrial customers who comprehensively upgrade their facilities through investments in energy efficiency.

This program will ultimately benefit the New Jersey consumer by providing the necessary gap financing to support the deployment of energy efficient measures in commercial and industrial buildings in New Jersey for entities that would not be able to self fund absent this loan product. Additionally, given that it is structured as a revolving loan program, it will serve as a self replenishing pool of money of the initial capital source from BPU CEF program dollars, utilizing interest and principal payments on old loans to replenish the fund and assist in future loan allocations.

Serving as a companion to the BPU PFP incentive program, the EERLF program can provide support of up to a maximum 80% loan to support 100% of eligible project costs (inclusive of PFP incentive award granted). Total EDA program funding cannot exceed \$2.5MM per awardee. It would be the goal of the Authority to finance only those costs of the project that contribute to the energy savings, exclusive of energy reduction plan costs and other non-qualified project costs.

Background

The New Jersey Board of Public Utilities Office of Clean Energy (OCE) and the New Jersey Economic Development Authority have been administering various New Jersey Clean Energy Programs which are designed to promote the development and installation of renewable energy, energy efficiency, and alternative energy projects statewide. Under this new program, the OCE will be able to leverage OCE program funds and the financial expertise of the EDA to provide revolving loan funding to support qualified energy efficiency commercial and industrial projects in New Jersey, as a complement to the current incentive structure of the PFP program.

Target Market/Eligibility

The recipients of the EIGGF will be New Jersey-based Commercial, Institutional or Industrial entities (including 501c-3s) that meet OCE PFP program requirements and have a BPU-approved Energy Reduction Plan. The project should create or maintain jobs in New Jersey. Additionally, should a C&I Large Energy Users Self-Directed Pilot Program become available in 2011, customers eligible for that program would also be eligible for the EDA EE RLF program.

Program Offering and Incentives

On a per awardee basis, total funds awarded are subject to a minimum of \$250,000 and a maximum of an 80% loan to support 100% of eligible project costs, inclusive of the CEP Pay for Performance incentive rebate (which includes incentive for installation of recommended measures and incentive upon delivery of approved post construction benchmarking report). Maximum loan dollar size is not to exceed \$2,500,000.

Interest rates for this program will be tiered as follows:

- 2%; amortization up to 3 years
- 3%: amortization up to 5 years
- 4% : amortization up to 7 years

Personal guarantees are required as part of this financing for any person or entity with 10% or more ownership in project. Additionally, EDA will look for a minimum 1.1:1 debt service coverage ratio. EDA will also take lien on equipment to be financed, lien on business assets and/or collateral.

Program Delivery

The EDA will accept program applications on a rolling basis. There is no application deadline as applications are reviewed as received. All potential applicants should be speaking with an EDA representative prior to applying for funding to determine eligibility. There will be an application fee and related EDA servicing fees and the EDA's on line application will be utilized.

Applicants that have An OCE-approved Energy Reduction Plan (which will identify financing incentives associated with the project though PFP) will be eligible to submit a complete application package for the EERLF. Applications will be subject to an extensive business and financial due diligence undertaken by EDA. Approval of the project loans will be by BPU's Board. The EDA will administer the underwriting, closing and disbursement of funds to the Awardees. EDA will also manage the loan portfolio post closing. Technical performance monitoring will be undertaken by OCE and/or its market managers.

Planned Program Implementation Activities for 2011

The following program implementation activities will be undertaken in 2011:

- Manage all aspects of the application and review process with 2011 program funding.
- Develop and distribute educational and marketing promotion materials with the BPU.
- Draft press releases and any other public announcements with the BPU.
- Implement system enhancements for processing applications, project information and quarterly reporting to the BPU in compliance with BPU IMS accounting and reporting requirements.

Quality Control Provisions

It is expected that the OCE and/or its market managers with expertise in renewable energy and energy efficiency technologies will assist in reviewing the applications into the Pay for Performance program and have the authority to reject all applications that do not meet the technical eligibility guidelines for technologies promoting energy efficiency and renewable energy programs as set forth at N.J.S.A., 48:3-49 et seq, the Electric Discount and Energy Competition Act.

It is expected that the OCE and/or its designated market managers will conduct field inspections and monitor the project technical performance in alignment with post construction reporting requirements through the PFP program (Measurement and verification (M&V) component to ensure the estimated savings levels are achieved).

Program Budget

The approved 2011 budget for EERLF is \$18,000,000 in new 2011 funds. EDA will comply with the BPU IMS accounting and reporting requirements. A budget breakdown for this program will be included in the OCE compliance filing budget.

A \$660,000 annual EDA fee is approved for EDA administrative services in support of the new EE RLF program, the CEMF program, and the new EIGGF programs combined. The existing MOU between BPU and EDA would need to be amended accordingly for these programs.

Marketing Plans

- The EDA jointly with the BPU will develop marketing materials for distribution and update websites, including industry databases, for announcement of the program.
- Promote the program at educational and networking events with potential participants and industry stakeholders.

Program Goals and Performance Indicators

The goals of this program include leveraging public and private resources for advancing and supporting vibrant commercial and industrial energy efficiency projects in New Jersey in accordance with the NJ Governor's Energy Master Plan.

Goals for the program include the following:

- Solicit at least 12 well qualified applications and target 8 loans.
- Provide program information in order to attract qualified applicants at state, regional and national energy efficiency forums, publications and/ or websites.