

## Federal Stimulus Allocation Plan – State Energy Program (SEP) Funds

State of Florida Allotment: \$126,089,000.00

Total Jobs Created/Retained from SEP Funds: 1,832

Renewable Energy Programs	Allocation for FY 2009-2010
Solar for Schools & Storm Shelters	\$20,000,000.00
Solar for State Government Facilities	\$1,000,000.00
Solar Energy Rebate Program	\$5,000,000.00
E-85/B20 Public Fueling – Conversion Revolving Loan	\$5,000,000.00
CNG Fleet Fueling Facilities – Matching Grants	\$4,000,000.00
Subtotal- Renewable Energy	\$45,000,000.00

### Solar for Schools & Storm Shelters

- **Description:** The objective of this program is to install 10 kW photovoltaic systems with battery back-up on strategically located emergency shelters throughout the state. There are four primary objectives to this program: 1) creating or preserving green collar jobs by hiring authorized contractors to install solar systems 2) reducing greenhouse gas emissions 3) providing power for critical needs during power outages and times of disaster 4) educating future generations about solar energy technologies. The emergency shelters targeted for this program will also be schools.

The program administrator will coordinate the selection of 190 disaster relief sites (schools) in Florida and install 10 kW solar systems with dataloggers on each site. The administrator will conduct operation and maintenance workshops for energy and facilities managers and administer education orientation workshops for teachers throughout Florida. In addition, it will update the energywhiz.com website to include new system information for each of the 190 schools. This website will allow students to see energy production for each of these sites. These solar systems will defer over 3,100 MWh from the grid annually with clean solar energy and reduce carbon emissions by over 2,200 metric tons annually.

- **Program Year Funds by Source:**
  - SEP grant: \$20,000,000.00
  - Leveraged funds anticipated

### Solar for State Government Facilities

- **Description:** In July 2007, Governor Charlie Crist signed three Executive Orders initiating Florida’s energy policy. One of these Executive Orders, EO 126, committed the state government to first measure greenhouse gas emissions and then to develop a Governmental Carbon Scorecard. State government then set out to reduce emissions 10 percent by 2012, 25 percent by 2017, and 40 percent by 2025. To achieve these goals, state buildings constructed in the future will be energy efficient and include solar panels whenever possible. ARRA funding will enable the State of Florida to continue to display “leadership by example” through the installation of solar photovoltaic systems on

government buildings throughout the state. State government will install 125 kW of photovoltaic panels on state facilities. These solar systems will defer over 208,000 kWh from the grid annually with clean solar energy and reduce carbon emissions by over 149 metric tons annually. Beyond these metrics, this project will educate the public. These panels will be displayed in prominent locations and exemplify the effectiveness of renewable energy technology.

- **Program Year Funds by Source:**
  - SEP grant: \$1,000,000.00

### **Solar Energy Loan Program**

- **Description:** The objective of this program is to create a low-interest solar loan program, providing the necessary capital to deploy commercially available solar water heaters. By deploying these technologies this program will focus on three major objectives: 1) creating or preserving green collar jobs 2) reducing greenhouse gas emissions 3) creating a funding mechanism that will make solar water heaters cost-competitive with conventional water heaters. One of the major challenges to the commercialization of solar energy systems is large up-front capital costs, with a long term return on investment. This financing mechanism will be used as a tool to assist Florida residents with these initial capital costs, while requiring a manageable low-cost monthly payment. The solar loan program's design will allow this program to perpetuate and be self-sustaining beyond this appropriation.

The solar loan program will offer a 90/10 micro-loan of \$4,500. The loan term will be 5 years. This term is long enough to allow a borrower to reach their pay-back period through energy savings, but short enough to allow the new loans to be made. This program will require low-interest, between 2% and 4%, to administer the program, cover potential loan defaults and perpetuate the loan. The target goals of this program are to install over 3,000 water heaters, displace over 4,400 MWh annually with clean solar energy, and reduce carbon emissions by over 3,100 metric tons annually.

- **Program Year Funds by Source:**
  - SEP grant: \$10,000,000.00
  - Leveraged funds anticipated

### **Solar Energy Rebate Program**

- **Description:** The State of Florida's solar rebate program has successfully catalyzed investment in clean solar energy technologies. These investments have bolstered Florida's nascent clean energy economy and created "green-collar jobs". The program provides a \$4/per Watt rebate on photovoltaic systems, with a max rebate amount of \$20,000 for residential systems and \$100,000 for commercial systems. In addition, the program provides a \$500 rebate for residential solar water heaters, a \$15 per 1,000 Btu up to a maximum of \$5,000 for commercial solar water heaters and a \$100 rebate for solar pool heaters.
- **Program Year Funds by Source:**
  - SEP Grant: 5,000,000.000
  - Budget Amendment Required

**E85/B20 Public Fueling – Conversion Revolving Loan Program**

- **Description:** The object of this program is to increase the availability of E85 and B20 to consumers at retail stations throughout Florida by providing low-interest loans to fuel station owners to install E85 or B20 tanks and pumps at their facilities. There are over 500,000 flex fuel vehicles travelling on Florida roadways with very little access to E85 fuel. Florida currently has fifteen E85 and fourteen B20 stations open to the public. With this program, Floridians will have access to biofuels at as many as 166 additional locations. One of the major challenges for station owners in the installation of alternative fuel tanks and pumps is the large up-front cost and limited access to capital due to current credit market conditions. This program will alleviate that hurdle by assisting owners with the cost of installation of these alternative fuel tanks and pumps by providing low-interest loans of up to \$30,000.00. This program compliments the emphasis provided to alternative fuel production facilities by the State of Florida in current law and previous appropriations.
- **Program Year Funds by Source:**
  - SEP Grant: 5,000,000.000

**Compressed Natural Gas (CNG) Fleet Fueling Facilities –Matching Grant Program**

- **Description:** The object will be to foster the development of CNG Fleet Fueling stations throughout the state of Florida by providing a matching rebates to utilities, commercial companies, school districts, local governments, etc. up to \$500,000.00. The program would provide 25% matching funds for projects installed by for-profit entities. Not-for-profit and public entities will be eligible for matching funds of up to 50% of total installation costs. One of the major challenges for fleet owners is large up-front cost of installing a CNG fueling station for their fleets. This program will alleviate that hurdle by assisting owners with the cost of installation of a CNG fueling facility through rebate.
- **Program Year Funds by Source:**
  - SEP Grant: 4,000,000.000

<b>Energy Efficiency Programs</b>	<b>Allocation for FY 2009-2010</b>
Florida Residential Retrofit	<u>\$15,000,000.00</u>
Subtotal – Energy Efficiency	\$15,000,000.00

**Florida Residential Retrofit**

- **Description:** The objective of the Florida Residential Retrofit program is to quickly develop a program to retrofit Florida’s pool of older homes to become more energy efficient and to lay the ground work for a long term market-based program that offers a whole-house approach for reducing energy use. This program will launch rapidly by working with our existing pool of energy inspectors, auditors, contractors, and county building inspectors. The program will offer incentives for homeowners that have an energy audit and make sufficient improvements to capture at least a 20% improvement in their home energy efficiency. The program incentives will include a combination of low-interest loans and, upon verification of the completed energy efficiency improvements, a rebate program. Concurrent with the implementation of a basic residential retrofit program, this program will establish an inspector/auditor and contractor certification

program throughout the state via Florida’s Community Colleges to provide whole-house energy efficiency training. In coordination with the Florida Residential Retrofit program, a consumer education program and an energy audit awareness program will be developed.

There are three primary goals for Florida’s Residential Retrofit program, (1) to provide financial incentives for Florida’s homeowners to encourage making energy efficiency improvements to their older homes, (2) to provide a consistent high quality energy audit program at low or no cost to homeowners, and (3) to provide a high quality training and certification program for Florida’s energy inspectors/auditors or contractors in analyzing the whole-house energy efficiency. Approximately 66.8% (5,677,082) of the housing units in Florida were built before 1989 when modern energy codes were established, giving Florida two thirds of its housing stock in need of energy efficiency retrofits.

- **Program Year Funds by Source:**
  - SEP Grant: \$15,000,000
  - Leveraged Funds Anticipated
  - Training funds will be leveraged though Workforce Florida
  - Program advertising funds will be leveraged through Florida’s utilities, cities and counties
  - Consumer education program funds will be leveraged through utilities, cities, counties and environmental organizations.

<b>Energy Sector Economic Development Programs</b>	<b>Allocations for FY 2009-2010</b>
Shovel Ready Energy Project Grants	\$20,000,000.00
Renewable Energy Sector Grant Program	\$24,089,000.00
Florida Opportunity Fund – Energy Commercialization	<u>\$22,000,000.00</u>
Subtotal – Energy Economic Development	<u>\$66,089,000.00</u>

**Shovel Ready Energy Project Grants**

**Description:** The goal is to provide matching grants for competitively-selected projects relating to renewable energy and energy efficiency technologies. The grant program is designed to stimulate capital investment in the state and promote and enhance the statewide utilization of renewable energy technologies. The top ten ranked projects from FY 2008-09 grant applications from the Renewable Energy and Energy-Efficient Technology category as well as the Renewable Energy and Energy-Efficient Technology for Bioenergy category will be selected to receive funding. Before funding is awarded, the applicant must agree to the federal government guidelines contained within the American Recovery & Reinvestment Act of 2009. If the applicant does not agree to the guidelines set forth by the federal government, funds will be reallocated a new competitive grant process as outlined in the Renewable Energy Sector Grant Program.

- **Program Year Funds by Source:**
  - SEP Grant: \$20,000,000.00
  - Leveraged Funds Anticipated

### **Renewable Energy Sector Grant Program**

- **Description:** The goal is to promote the commercialization of renewable energy technologies in Florida. The objectives include issuing a request for grant proposals followed by a technical review and ranking of the proposals leading to the award of grant funds.
- **Program Year Funds by Source:**
  - SEP Grant: \$24,089,000
  - Leveraged Funds Anticipated - \$100,000,000

### **Florida Opportunity Fund – Energy Commercialization**

- **Description:** Enterprise Florida is the state’s public/private economic development agent with a mission to assist in the retention and expansion of existing businesses and the creation of new businesses. To further this mission, the Legislature enacted Florida Statute §288.9624, which directed Enterprise Florida to create the Florida Opportunity Fund (Fund), a not-for-profit corporation, to increase the availability of seed capital and early stage venture equity capital for emerging companies in the state, including, but not limited to clean energy technology companies. The Fund’s investments will be restricted to technologies that may include, but are not limited to, devices, systems and software that generate, store, control, integrate, manage or facilitate the deployment of renewable energy or energy efficient products into the market. This will require that the Fund be able to balance its primary objectives of improving collaboration with the entrepreneurial community and transitioning technologies into the economy with the possible benefit of receiving a return that provides for continued operation of the Fund in future years.
- **Program Year Funds by Source:**
  - SEP Grant - \$22,000,000
  - Leveraged Funds Anticipated - \$220,000,000