

Myth #2 Solar is a poor energy producer



Myth # 2: Solar Is a Poor Energy Producer





Status Report on Florida Recovery & Reinvestment Plan

Florida's ARRA Energy Funding Strategy

Florida Energy & Climate Commission



State Energy Program (SEP): FECC-Approved Projects

- Solar for Schools & Storm Shelters
- Solar for State Government Facilities
- Solar Energy Loan Program
- Solar Energy Rebate Program
- E-85/B20 Public Fueling – Conversion Revolving Loan
- CNG Fleet Fueling Facilities – Matching Grants
- Florida Residential Retrofit Grants/Loans
- Shovel-Ready Grants
- Florida Clean Energy Grants
- Florida Clean Energy Opportunity Fund





SEP: Solar for Schools & Storm Shelters (\$10,600,000)

- **SUMMARY:** Install 10 kW photovoltaic systems on 90 public schools
 - Strategically selected schools that also serve as emergency shelters
 - Battery back-up power on schools/emergency shelters
 - Solar energy educational component
- **DOE REVIEW:** Approved
- **STATUS:** Contract has been vetted through EOG Procurement and Legal; negotiations with FSEC continuing





SEP: Solar for State Government Facilities (\$1,000,000)

- **SUMMARY:** Install 200 kW photovoltaic system on the Department of Revenue's new LEED-certified headquarters in Tallahassee
 - Includes an interactive public education component
 - Increases LEED certification to Gold
- **DOE REVIEW:** Approved
- **STATUS:** Agreement with the Department of Management Services (DMS) in EOG Legal





SEP: Solar Energy Loan Program (\$10,000,000)

- **SUMMARY:** Low-interest loan program for residential solar hot water heaters; up to \$5,000
- **DOE REVIEW:** Approved
- **STATUS:** Revised Request for Proposals (RFP) for loan administrator is in EOG Procurement/Legal





Solar Rebate Management Update

- Hired an additional staff person dedicated solely to processing rebate applications since the 09/29/09 meeting
- Completed interview process for hiring 3 additional OPS personnel
- Current Solar Rebate staffing (3 full time, 1 part time OPS and 1 intern)
- As of 07/01/08 – 9,350 applications received
- Since 07/01/08 – 4,780 applications approved and being processed for payment
- Since 07/01/08 – 1,306 checks processed totaling \$2,739,496.48 (ARRA funds)





SEP: E85/B20 Public Fueling Facilities Conversion Loan (\$5,000,000)

- SUMMARY: Provide low-interest loans to retail and public fueling station owners to install E85 or B20 tanks/pumps at their facilities
 - low-interest loans of up to \$30,000
 - E85 and B20 tanks and pumps
- DOE REVIEW: Approved
- STATUS: Revised Request for Proposals (RFP) for loan administrator is in EOG Procurement/Legal





SEP: CNG Fueling Facility Matching Grants (\$4,000,000)



- **SUMMARY:** Expand CNG fleet fueling stations by providing matching grants to commercial entities, non-profits, school districts, local governments
 - grants of up to \$500,000
 - provides 25% matching funds installed by for-profit entities
 - provides 50% matching funds for projects installed by not-for-profit and public entities
- **DOE REVIEW:** Conditionally Approved – revised application pending at DOE
- **STATUS:** Grant solicitation in EOG Procurement/Legal





SEP: Florida Residential Retrofit Grants/Loans (\$15,000,000)



- **SUMMARY:** Applicant must undergo an energy audit; goal is to capture at least a 20% energy efficiency for residence
- \$3,000 rebate incentives (building envelope and HVAC)
- \$5,000 low-interest loans
- Improvements must be independently verified
- **DOE REVIEW:** Approved
- **STATUS:** Request for Proposals (RFP) for third-party administrator in development



SEP: Shovel-Ready Grants (\$20,000,000)



- SUMMARY: Competitively-selected renewable energy and energy efficiency projects; designed to stimulate capital investment in the state and promote the statewide utilization of renewable energy and energy efficiency technologies



- DOE REVIEW: On-going
 - Lamar Advertising (Approved)
 - Clean Fuels (Denied)
 - Perry Connection (Approved)
 - U.S. Sugar (Approved)
 - Petro-Algae (Denied)
 - Green Hunter (Denied)
 - Ag Oil (Resubmitted as demonstration - under review)
 - Florida Crystals (Resubmitted - under review at DOE HQ)
 - Mustang (Tentatively Approved)
 - Natural Air (Submitted - under review)
- Contract negotiations underway with approved entities





SEP: Florida Clean Energy Grants (\$24,089,000)



- **SUMMARY:** New ARRA-specific grant program designed to support energy efficiency retrofits and small-scale deployment of renewable energy
 - minimum award \$250,000
 - maximum award of \$3 million
 - competitive selection process with FECC review and approval



- **DOE REVIEW:** Initial submission to DOE was not approved; redesigned and resubmitted – under review
- **STATUS:** Draft grant solicitation in EOG Procurement/Legal



SEP: Clean Energy Opportunity Fund (\$22,000,000)



- **SUMMARY:** State strategic investment to “grow” clean energy businesses:
 - (1) energy efficient equipment and process improvements
 - (2) renewable energy equipment
 - (3) the adoption of EE/RE techniques or technologies, or
 - (4) demonstrating commercially available energy efficiency or renewable energy techniques and technologies



- **DOE REVIEW:** Approved
- **STATUS:** Draft investment management agreement with Opportunity Fund managers in development



Energy Efficiency Conservation Block Grant FECC-Approved Projects

- Competitive Grants to Non-Entitlement Cities and Counties
- Sunshine State Buildings Initiative
- Energy Code Compliance and Evaluation
- Energy Code Training and Education
- Clean Tech Economic Development Strategy Support
- Electric Car Rebate
- Data Center Energy Efficiency





EECBG: Competitive Grants to Non-Entitled Cities and Counties (\$18.6 million)



- SUMMARY: FECC will distribute at least 60% of the State's portion of EECBG funds to small cities and counties that did not receive direct funding from the DOE
 - Competitive solicitation with FECC review and approval
 - Grants will focus on energy efficiency retrofits and small-scale renewable energy deployment



- DOE REVIEW: Awaiting final DOE approval
- STATUS: Draft grant solicitation in Procurement/Legal



EECBG: Sunshine State Buildings Initiative (\$8.5 million)

- **SUMMARY:** Leverage recent analyses of energy use in state facilities to prioritize deployment of energy efficiency and renewable technologies in state buildings (approximately 12 buildings included in scope of project)
- **DOE REVIEW:** Awaiting final DOE approval
- **STATUS:** Negotiating grant agreement with the Department of Management Services (DMS)





EECBG: Energy Code Compliance and Evaluation (\$600,000)

- **SUMMARY:** This initiative will provide an evaluation and analysis for understanding the market, construction practices, and the impact of available technologies for implementation of increased building/energy code stringency (mandated under HB 7135):
 - 30 percent for 2013 code
 - 40 percent for 2016 code
 - 50 percent for 2019 code
- **DOE REVIEW:** Awaiting final approval from DOE
- **STATUS:** Grant agreement discussions with the Department of Community Affairs (DCA)





EECBG: Energy Code Training and Education (\$293,600)

- **SUMMARY:** Energy code training and education program for architects, engineers, contractors, code officials, and other construction industry professionals:
 - Target programs at educational institutions; and
 - Energy extension demonstration centers throughout the state
- **DOE REVIEW:** Awaiting final approval from DOE
- **STATUS:** Grant agreement discussions with the DCA



EECBG: Clean Tech Economic Development Strategy Support (\$300,000)

- **SUMMARY:** This initiative will analyze the success of current state energy incentives (scheduled to sunset in 2010) and compile a package of policy recommendations for the Legislature to encourage targeted deployment of clean energy technologies
- **DOE REVIEW:** Awaiting final approval from DOE
- **STATUS:** FECC will expedite procurement to ensure completion prior to 2010 Session





EECBG: Electric Car Rebate (\$500,000)

- **SUMMARY:** Residential vehicles and commercial fleets that convert hybrid vehicles to plug-in hybrid electric vehicles would be eligible to apply for a one-time \$5,000 rebate from the state within 12 months of the date of conversion
- **DOE REVIEW:** Awaiting final DOE approval
- **STATUS:** Rebates will be processed “in-house”; rebate application and supporting documentation in development





EECBG: Data Center Energy Efficiency (\$375,000)

- **SUMMARY:** Project will develop a detailed plan for primary data center optimization:
 - evaluating and implementing specific technologies such as virtualization, power and cooling systems, and the use of energy efficient hardware devices
 - Potential for substantial in energy consumption
 - Working closely with Agency for Enterprise Information Technology (AEIT)
- **DOE REVIEW:** Awaiting final DOE approval
- **STATUS:** Preliminary discussions with the AEIT, and other stakeholders concerning the scope of project





ENERGY STAR

Appliance Rebate Program

- **SUMMARY: \$17,585,466**
 - Program runs from April 16, 2010 to April 25, 2010 which coincides with Earth Day on April 22nd
 - Save energy, reduce air emissions, & stimulate the economy by encouraging residential consumers to replace old appliances with new ENERGY STAR qualified models;
 - Gas Tankless Water Heaters
 - Room Air Conditioners
 - Clothes Washers
 - Refrigerators
 - Dish Washers
 - Freezers



DOE REVIEW: Application submitted to DOE on October 12th

ENERGY STAR

Appliance Rebate Program (Continued)



- Rebate amount is a flat 20% of the product price, before tax
- \$1,500 cap per household
- \$75 for proof of recycling old appliance (appliance swap)
- Program administered by an independent third party administrator
 - \$150,000 in general revenue from Legislative Budget Commission upon federal approval
 - In-kind contribution from Florida retailers, such as Lowe's, Home Depot, Sears, etc.
- Administrative rule noticed; RFP for administrator in development



Energy Assurance Grant Update (Smart Grid)

- \$1.88 million grant
- Collaborative effort (FECC, PSC, DEM, FDLE)
- Program Plan submitted on October 13th
- Next major milestone – Staffing plan
- Emergency Management Consultant and Mapping Software Developer RFPs target release date – December 2009





New EECBG Competitive Grant: “Retrofit Ramp-up”

- Funding: \$390 million – between 8 and 20 awards for programs of \$5 million to \$75 million
- Focus: Large scale energy efficiency retrofits with geographic focus (i.e., “whole neighborhood” retrofits)
- Eligibility: States, local governments, tribes, non-governmental entities, collaborative efforts
- Voluntary Letter of Intent Due: November 19th
- Application Due: December 14th



New EECBG Competitive Grant: General Innovation Fund for Local Governments

- Funding: \$63.7 million – between 15 to 60 awards for programs of \$1 million to \$5 million
- Focus: Innovative and sustainable market transformation programs
- Eligibility: Non-entitlement local governments, non-governmental entities, collaborative efforts
- Application Due: December 14th
- FECC NOT Eligible



Federal Reporting Requirements

www.FlaRecovery.gov

- Agencies must report no later than 10 days after the end of each quarter
 - Total amount of recovery funds received; and
 - Total amount of recovery funds expended/obligated
 - Detailed list of projects/activities for which recovery funds were expended or obligated, including:
 - Name of the project or activity
 - Description
 - Completion status
 - Number of jobs created/retained
 - Detailed information on subcontracts/subgrants
- Florida agencies report to FlaReporting.gov
 - Available for review by the Office of Economic Recovery, OPB reviewers, and Inspector General
 - Office of Economic Recovery submits to www.FederalReporting.gov





Upcoming FECC Events

- Today: EECBG Webinar with the Florida League of Cities
- November 3rd (tentative): FECC conference call to review grant solicitation documents
- November 19th: Regularly scheduled FECC meeting

