



Florida Recovery & Reinvestment Plan

Florida's ARRA Energy
Funding Strategy



Lessons Learned



- Evolving DOE eligibility guidance emphasizes “process” over “product”
- NEPA (environmental review) considerations are critical
- Performance metrics, reporting and accountability are essential elements
- *Everything takes longer than anticipated....*



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 (\$20,000,000)

- SUMMARY: Install 10 kW photovoltaic systems with battery back-up on 190 strategically located schools/emergency shelters throughout the state; includes an energy education component
- DOE REVIEW: Approved
- STATUS: Contract with the Florida Solar Energy Center (UCF) in Procurement/Legal
- ACTION REQUESTED: Reallocation of \$10,000,000 to support Solar Rebate Program; authorize staff to enter into contract with FSEC





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 building in Tallahassee; includes an interactive public education component
- **DOE REVIEW:** Approved
- **STATUS:** Negotiating grant agreement with the Department of Management Services (DMS)
- **ACTION REQUESTED:** Authorize staff to enter into grant agreement with DMS





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

- **SUMMARY:** Low-interest loan program targeting deployment of commercially available solar hot water heaters; 90/10 micro-loan (2%-4% interest) of up to \$5,000
- **DOE REVIEW:** Approved
- **STATUS:** Request for Proposals (RFP) for loan administrator is in Procurement/Legal
- **ACTION REQUESTED:** Authorize staff to work with Chair on the finalization of the RFP





SEP: Solar Energy Rebate Program (\$5,000,000)

- **SUMMARY:** Provides a \$4/per Watt rebate on PV systems with a max rebate amount of \$20,000 for residential systems and \$100,000 for commercial systems; 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
- **DOE REVIEW:** Approved
- **STATUS:** Existing program - \$5,000,000 initial allocation is almost fully expended
- **ACTION REQUESTED:** Reallocate \$10,000,000 from Solar Schools & Storm Shelters to Solar Rebate Program (subject to DOE approval)





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



- **SUMMARY:** Increase the availability of E85 and B20 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; low-interest loans of up to \$30,000
- **DOE REVIEW:** Approved (September 15)
- **STATUS:** Draft Request for Proposals (RFP) for loan administrator is in Procurement/Legal
- **ACTION REQUESTED:** Authorize staff to work with Chair on the finalization of the RFP





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



- **SUMMARY:** Support the development of CNG fleet fueling stations by providing matching grants to utilities, commercial companies, school districts, local governments, etc. 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 (August 29)
- **STATUS:** Grant solicitation in development
- **ACTION REQUESTED:** Authorize staff to work with Chair on the finalization of the RFP





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

- **SUMMARY:** Provides financial incentives for homeowners to implement energy audits and make sufficient improvements to capture at least a 20% improvement in their home energy efficiency; incentives will include a combination of low-interest loans and, upon verification of the completed energy efficiency improvements, a rebate
- **DOE REVIEW:** Approved
- **STATUS:** Request for Proposals (RFP) for third-party administrator in development
- **ACTION REQUESTED:** Authorize staff to work with Chair on the finalization of the RFP



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 (tentatively approved)
 - Clean Fuels (resubmitted - under review)
 - Perry Connection (approved)
 - U.S. Sugar (approved)
 - Petro-Algae (preparing to resubmit)
 - Green Hunter (resubmitted - under review)
 - Ag Oil (resubmitted - under review)
 - Florida Crystals (resubmitted - under review)
 - Mustang (resubmitted - under review)
 - Natural Air (submitted - under review)



- **STATUS:** Contract negotiations with approved entities
- **ACTION REQUESTED:** Consider reallocation of residual funds not approved by DOE to the Clean Energy Grant or Clean Energy Opportunity Fund; authorize staff to enter into contracts for approved projects



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; wide-range of entities eligible; 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 development
- **ACTION REQUESTED:** None at present; grant application will be brought before Commission for final approval





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



- **SUMMARY:** State strategic investment program designed to continually source program opportunities with businesses that are establishing, expanding or upgrading their operations and incorporating: (1) energy efficient equipment and materials, (2) renewable energy equipment and materials, (3) process improvements to reduce energy consumption, the adoption of EE/RE techniques or technologies, or (4) other activities relevant to program objectives; or demonstrating commercially available energy efficiency or renewable energy techniques and technologies
- **DOE REVIEW:** Initial submission to DOE was not approved; redesigned and resubmitted - Approved (September 17)
- **STATUS:** Draft investment management agreement with Opportunity Fund managers in development
- **ACTION REQUESTED:** Authorize staff to enter into investment management agreement with Opportunity Fund





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 (\$18.2 million)



- **SUMMARY:** The 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 Department of Energy through a 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
- **ACTION REQUESTED:** None at present; grant application will be brought before Commission for final approval





EECBG: Sunshine State Buildings Initiative (\$8.9 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
- **ACTION REQUESTED:** Request Commission revise allocation to reflect proposed use of funds (previously \$9.4 million for Solar Rebate program); authorize staff to execute agreement with the Department of Management Services upon DOE approval





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



- **SUMMARY:** This initiative will provide the base information for understanding the market, construction practices and the impact of available technologies for devising targets and implementation tactics for increased building/energy code stringency (mandated under HB 7135)
- **DOE REVIEW:** Awaiting final approval from DOE
- **STATUS:** Grant agreement discussions with the Department of Community Affairs
- **ACTION REQUESTED:** Authorize staff to enter into grant agreements with the Department of Community Affairs upon DOE approval





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



- **SUMMARY:** Energy code training and education program for designers, contractors, code officials and other construction industry professionals through 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 Department of Community Affairs
- **ACTION REQUESTED:** Authorize staff to execute grant agreement with the Department of Community Affairs upon DOE approval



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:** Preliminary discussions with potential consultants, including NREL
- **ACTION REQUESTED:** Authorize staff to enter into contractual agreement with consultant



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
- **ACTION REQUESTED:** Authorize staff to develop application and supporting documentation





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

- **SUMMARY:** Project will develop a detailed plan for primary data center optimization by evaluating and implementing specific technologies such as virtualization, power and cooling systems, and the use of energy efficient hardware devices
- **DOE REVIEW:** Awaiting final DOE approval
- **STATUS:** Preliminary discussions with the Agency for Enterprise Information Technology and other stakeholders concerning the scope of project
- **ACTION REQUESTED:** Authorize staff to execute grant agreement with the Agency for Enterprise Information Technology upon DOE approval

