



Renewable Energy and Energy-Efficient Technologies Grants Program

Smart Grid with Renewable Strategic Load Pocket

Recipient: University of South Florida
Project Partners: Progress Energy, Publix, HD Supply
Contact: Ms. Shanna Hunt, University of South Florida, (813) 974-7971
Location: Tampa Bay Region

Grant Funds Requested: \$1,422,364
Grant Funds Awarded: \$1,422,364
Cost Share Amount: \$13,726,843

Project Objective: This project will implement a “Smart Grid” on a portion of Progress Energy Florida’s distribution system in St. Petersburg, Florida. The system will integrate the use of renewable distributed generation along with advanced sensors, communication and control technologies, and other technologies, along with two-way communication between the utility and electric loads within customer premises, to increase energy efficiency, reliability and security.

The Smart Grid will include an advanced system of customer-focused energy efficiency improvements, and will demonstrate that renewable technologies, such as wind and solar, and waste energy can be aggregated and stored for use to reduce the need for traditional fossil-fueled generation to meet peak energy needs. Renewable technologies will be combined with customer demand-side management, advanced sensors and communication technologies to create a more efficient, secure and reliable electric delivery system.

Energy Potential: This project will reduce greenhouse gas emissions while increasing energy security and power quality, providing the utility with a model that can be transferred and replicated in just about any distribution system in Florida.

Economic Development: If replicated throughout the state, a more efficient power system could reduce the cost of energy, lowering consumers’ bills as well as encouraging economic development in all industries in Florida.

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