





Solar + Storage in Florida Public Schools

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Retired - Florida Solar Energy Center/UCF

Project Objectives

- Generate clean electricity from the sun
- Understand your energy needs in a disaster
- Provide power to critical needs in emergency shelters
- PV system designed as a uninterruptable power supply (UPS)
- Educate students and teachers about clean energy technology and careers
- Create 'clean' jobs in Florida
- Reduce green house gas emissions

Barrier to Implementation

- Biases and misunderstanding technology
- Changing personnel
- Codes and operational requirements
- Physical locations and site layouts
- Maintenance and operation
- Cost perception

Lessons Learned

- Personnel changes
- Direct and continuing education
- School schedules
- Varying rules/procedures
- Understanding real energy needs
- Fault tolerant architecture implementation

Project Impact

- Utilities were excited about the program
- Teachers and students became interested in solar
- Facilities managers and technicians gained new knowledge and skills
- More jobs through construction contracts
- Hurricane emergency power operation was successful as backup power for critical items
- PV systems survived hurricane forces
- PV systems saved schools money on their utility bills with net metering

FLORIDA SUNSMART EMERGENCY SHELTER

PROGRAM



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