



FLORIDA SOLAR ENERGY CENTER

Creating Energy Independence Since 1975

Education

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A Research Institute of the University of Central Florida





Who Do We Educate?

- ❖ Solar Installers and Contractors
- ❖ Building Code Officials
- ❖ Emergency Management Personnel
- ❖ Energy Raters
- ❖ K-12: Students and Teachers
- ❖ Consumers
- ❖ University Students



PV Installers' Class

- ❖ Provides certification.
- ❖ An intensive, weeklong course targeted towards contractors, journeymen, and practitioners who install grid-connected PV systems
- ❖ Several hundred individuals have attended this hands-on program since 1999.





Florida Energy Raters

- ❖ Energy ratings used to qualify for national Energy Star and Building America programs
- ❖ There are 262 certified building energy raters in Florida, including 117 Class 1 raters who are recognized nationally
- ❖ FSEC provides training at least four times a year with additional trainings as necessary
- ❖ FSEC provides this training through a no cost MOU with the Department of Community Affairs which certifies the raters



Tools for Schools

Utility REPORT CARDS

A Tool to Gauge Energy Use in Schools.

About URC

Why URC

Join URC

URC Live

URC Tutorial

Contact Information

Limited Funding
Opportunity



Partners

OCPS

SCPS

BCPS

FSEC

Progress Energy

OUC

FPL

FEO

DOE

Walt Disney World®

SRC

FSEC Research

The Utility Report Card (URC) is a web-based energy information system used to report, evaluate and chart utility consumption in schools.



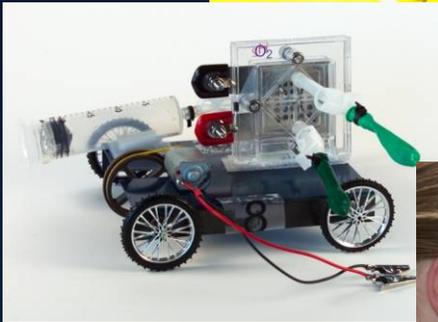
SunSmart Schools

- ❖ State of Florida provides subsidies to install solar system on schools to
 - To teach students firsthand about the use of solar energy
 - To offset the cost of the utility bill
 - To learn more about how PV works in the field





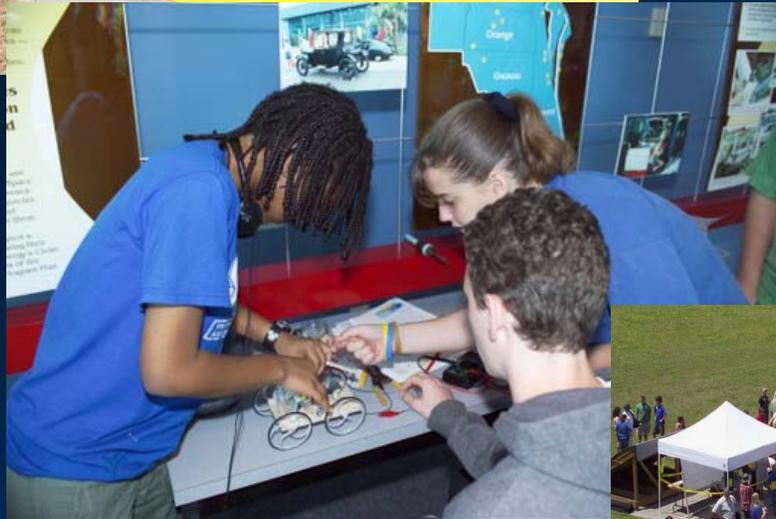
EnergyWhiz Olympics



- ❖ Junior Solar Sprint
- ❖ High School Hydrogen Sprint
- ❖ Middle School Hands-on Hydrogen Competition
- ❖ Energy Innovations
- ❖ EPEC



EnergyWhiz Events



- ❖ Hands-on
- ❖ Science, mathematics and engineering
- ❖ Team centered
- ❖ Critical thinking & problem solving
- ❖ Fun!





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Alternative Energy Banner Center

Funding Agency: Work Force Florida, Inc.

Concept: Center must be industry driven.

Amount: \$500,000

Time Period: One Year

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Alternative Energy Banner Center

Partners:

Tallahassee Community College

Brevard Community College

Broward Community College

Westside Technical School

Brevard Work Force Development Board

Florida Solar Energy Industries



Training Concepts

1. Curriculum development with industry help.
2. Train-the-trainer.
3. Conduct student training at four partner institutions.
4. Develop program sustainability.



Possible Future Training Efforts

- 1. Banner Center can be renewed up to 5 years.**
- 2. U. S. Department of Labor – High Technology Regional Training Proposal**

Due: March 25, 2008
Amount: \$500 K to \$1 M
Partners: New York Energy Research Development Authority
National Electrical Joint Apprentice Training Council
- 3. U. S. Department of Energy – Will establish regional training facilities.**