



Think Green
Act Green
Be Green!



07-1202 Solar Energy Trainer
Desktop Stand



07-1202 Solar Energy Trainer
Mobile Stand



Outside or Inside
Mounts



07-1202 Solar Energy Module

The 07-1202 Solar Energy Module program demonstrates how solar cells are beginning to transform the way the world is powered. Students learn about one of the major forms of alternative energy and how technology is used to convert and transmit this energy. They explore solar as an energy source that can be used to help reduce dependence on exhaustible, non-renewable fuel sources. They gain a global perspective when they understand the economics, efficiency, and low environmental impact of producing energy from non-polluting, renewable sources.

New England & New York Academic Representative:



Technology Education Concepts

1-800-338-2238 | www.TECedu.com | info@TECedu.com



simplifying
renewable
energy
education

Progressive at work for you!

The Alternate Energy module includes everything required to function as a "turn-key" learning station; lesson plan, student guide, DVD video, training station with fault insertion and energy producing equipment. The module provides student instruction, in teams of two, for up to 20 hours.



The Lesson Plan includes an Instructor's Guide which provides instructions for installing, setting up, and implementing the module. It also includes learning outcomes, testing and evaluation procedures, answer keys, student skills response, inventory list and print CD.



The Student Activity manual guides students through 11 multi-disciplinary activities using the tools, and equipment included with the module package. It also contains optional enrichment and career exploration activities, daily activity response sheets and activity notes.

flexible solutions to meet your specific educational needs

Upon the completion of the Solar Energy Student Activity Manuals, students should be able to:

Activities

- Pre-Test/Introduction/ Safety Precautions
- Renewable Energy Basics
- Solar Energy
- Solar Siting
- Storage Devices and Monitoring
- Voltage Regulation and Monitoring
- Energy Conversion and Distribution System Design
- System Troubleshooting
- Energy Conservation
- Post-test and Wrap up
- History Research
- Careers in Renewable Energy
- Design your own Hybrid System
- Internet Research

07-1202 Training System Includes the following:

- 135w Solar Panel
- Training Panel
- 1000w Power Inverter
- Voltmeter/AmpMeter
- 30A, 12V Solar Charge Controller
- Disconnect (Mains,Solar)
- Deep Cycle Battery and cables
- Load Device
- Fault Insertion
- Data Acquisition with logger software
- Student and Instructor Guides
- Curriculum

Solar Panel Mounting- Not Inc.

The Renewable Energy training systems are usually permanently installed. There are many methods of mounting the solar panel(s) used in the Progressive Educational Systems training systems. These include outside on ground, roof and pedestal as well as tracking systems. Inside mounting is also available. For additional

GreenEd™

Progressive Educational Systems GreenEd line provides renewable energy training systems in the following areas for both high school and college level programs: wind, solar, hybrid Systems, Bio diesel, hydrogen, fuel cell, troubleshooting, installation skills, system design, certification programs, grid tie, solar thermal and geothermal.

GEM-DA™

Progressive Educational systems Green Ed Data Acquisition is computer monitoring system that records the voltages and currents for the wind turbine, battery and inverter. GEM-DA is a versatile, powerful and yet cost effective data logger handling analog, digital and other types of variables with high resolution and speed. It is a high performance and high connectivity



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