



Think Green  
Act Green  
Be Green!



Solar



Hydrogen



Bio

07-1000 Clean Energy  
Training System  
Desktop Stand



Wind

## 07-1000 Clean Energy Training System

The 07-1000 Clean Energy Training System provides students with a better understanding of some of the clean energy alternatives that are presently being used around the world.

In the Clean Energy Training system, students learn about today's major forms of clean energy and how technology is used to convert and transmit this energy. They explore solar, wind, hydrogen and biodiesel 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, NY & NJ Academic Representatives:*



Technology Education Concepts

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Progressive educational  
systems



simplifying  
renewable  
energy  
education



## Progressive at work for you!

The Clean Energy Training System includes everything required to function as a "turn-key" learning station; lesson plan, student guide, DVD video, training station with fault insertion, energy producing equipment, hydrogen and biodiesel components. The module provides student instruction in teams of two, for up to 35 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 15 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

CONSULTING  
SALES  
SUPPORT  
TRAINING

Upon the completion of the Clean Energy Training System Student Activity Manuals, students should be able to:

#### Activities

Pre-Test/Introduction/ Safety  
Precautions  
Renewable Energy Basics  
Solar Energy  
Wind Energy  
Solar Siting  
Wind Siting  
Storage Devices and Monitoring  
Voltage Regulation and Monitoring  
Energy Conversion and Distribution  
System Design  
System Troubleshooting  
Introduction to BioFuel  
BioFuel Production  
Introduction to Hydrogen  
Hydrogen Fuel Cells  
Post-test and Wrap up  
History Research  
Careers in Renewable Energy  
Design your own Hybrid System  
Problem Scenario Build your own turbine!!

#### 07-1000 Training System Includes the following:

400w Wind Generator  
Classroom Wind Station  
50w Solar Panel  
Table Top mount  
1000w Power Inverter  
Turbine Stop Switch  
Voltmeter/Ammeter  
100A, 12V Solar Charge Controller  
Disconnect (Mains, Wind, Solar)  
Deep Cycle Battery and cables  
Load Device  
Fault Insertion  
Hydrogen fuel cell  
Solar Panel and Hand Generator  
Beakers  
PPE  
Biodiesel Chemical Agents  
Measuring Devices  
Storage Container  
Student and Instructor Guides  
Curriculum  
Mobile or Desktop Stand  
**Optional:**  
GEM Cloud Monitoring 07-7370

### 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.

### Web-Lab™

A unique GreenEd™ Computer monitoring system providing the following advantages: Site License, On-Line Monitoring, School Branded URL, Cost savings analysis, Carbon Footprint, Payback periods, voltages and currents generated.

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systems