

Product Information Sheet

Green Energy in Buildings Trainer



Our STEM learning packages have been designed to provide practical real world problem solving tasks and activities within the classroom or lab environment.

These activities will provide an engaging approach that helps instructors show contextualized linkages between Science, Technology, Engineering, and Mathematics.

The Green Energy in Buildings package puts a model home into the classroom. This allows students to investigate lighting technologies, insulation properties, glazing, and air-conditioning, in addition to green energy production and related topics.

Interface software displays in real time the energy consumption of the building, as well as key data such as temperatures and light levels.



Interface software

This trainer includes access to digital curriculum materials including theory and practical learning tasks, as well as tutor support resources.

Typical Practical Activities Include:

- Investigating Energy Use in Buildings
- Home Wind Turbines
- Solar Electric Systems
- Energy for Heating Buildings
- Solar Water Heating
- Insulation and Glazing Performance
- Heat Pump Principles

Items Included:

- Eco-house
- Wind turbine
- Sun simulation lamp
- 3-speed desk fan
- Interface software, USB lead and power supply
- Curriculum in digital format

Other Items Required:

- Windows-based computer with spare USB port

Also Recommended:

- EXS-AL Exploring STEM Software Library - Annual Site License

General Information:

Dimensions: 650 x 510 x 490 mm (W x H x D) Max Height with lamp assembly 1030 mm
Power Requirements: 110 – 240V 50-60Hz
Packed Volume: Approx. 0.36 m³
Packed Weight: Approx. 25 kg