

Product Information Sheet

Sustainable Energy Production Teaching Set



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

The Sustainable Energy Production Teaching Set offers a classroom-based resource for practical investigation into alternative energy supplies.

The hardware pack and student resource packs can be used for class demonstrations, as well as offering student activities either individually or in small groups. The equipment included will turn any classroom into an exciting alternative energy lab. This resource includes access to digital curriculum materials including theory and practical learning tasks.

The trainer can also be used in conjunction with our optional cloud-based software, which offers online practical electronics tasks as well as interactive theory presentations, investigations, and assessments, which link directly to the practical activities carried out using this resource.

Typical Topic Areas Include:

- Power Generation
- Solar Power
- Wind Power
- Hydropower
- Biomass
- Geothermal Power
- Nuclear Power
- Fuel Cells
- The Efficiency of Power Generation
- The Grid

Items Included:

- Storage Container
- Curriculum in Digital Format
- Sustainable Energy Production Hardware Pack 1 x (100-01)
 - Solar Furnace
 - Thermo-acoustic Stirling Engine
 - Stirling Engine
- Sustainable Energy Production Student Resource Packs 12 x (100-02)
 - Solar PV Cell
 - Electrolyser and Fuel Cell
 - Wind Turbine and Blades
 - Energy Monitoring Unit and Software
 - Output and Load Devices
 - Table Lamp (Light Source)

Other Items Required:

- LJ Create Engineering or Technology Content (Optional)
- Computer with USB connectivity (required for energy monitoring units)
- 3-speed desk fan per workstation
- Consumable items (including denatured Alcohol, distilled water)

General Information:

Packed Volume: Approx. 0.675 m³
Packed Weight: Approx. 67 kg

Order Code: 100-00

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For more information visit www.ljcreate.com