

POWERED BY SOLAR



DID YOU KNOW?

"Solar" is the Latin word for "sun".

The sun has been **generating energy** for billions of years. **Life on Earth** depends on this energy.

The Earth **receives** more **energy** from the sun in an hour than is used in the **entire world** in one year. It would take far **less than 1%** of the Earth's land area covered in solar panels to supply all of the world's electricity needs.

Solar energy works best on days when it's **sunny** with **no clouds**. When the sun goes **behind a cloud** it can't provide as much energy on ground level. This is why we can't rely on solar energy alone.



Wind is a form of **solar power**, created by the uneven heating of the Earth's surface

SOLAR PANELS

Photovoltaic - When solar radiation is turned into electricity.

photo = light,
voltaics = electricity

Solar panels are made up of many small photovoltaic cells which convert **solar energy** into electricity. A large surface area is needed to absorb or collect a useful amount of energy.

When the sun shines onto a **solar panel**, the sunlight (**photons**) give up their energy to **electrons** in the solar panel. These electrons move around in a **circuit**. We can then use this power.

SOLAR ENERGY USES:

1. Solar energy has been used by humans for a long time. Uses include **heating, cooking, evaporating** salt from seawater and for **drying** clothes.
2. **Transport**: Solar cars and boats are powered by solar energy.
3. **Electronics**: Some toys, watches & calculators use small solar cells.
4. **Cooking**: Solar cookers can be used where there is no electricity.
5. **Space craft, satellites** and **space stations** use solar panels to generate power.



RENEWABLE ENERGY will never run out & can easily be replaced.

Renewable energy includes:


- **Biomass**
- **Wind**
- **Hydro-power**
- **Geothermal**
- **Solar**



SCORPIO TECHNOLOGY Vic Pty Ltd
17 Inverell Ave, Mt. Waverley Vic 3149
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March 2017

Renewable energy can be converted to electricity, which can be stored & transported for our use.



The technology used to convert the sun's power into electricity does not pollute the air, land or water.

SOLAR HOUSE



Introducing Scorpio Technology's new introductory solar products. INTRODUCTORY price only available for March and April

The **Solar house project kit** (Code: **SOLPROJ**) provides the components to use in a solar house. Includes solar panel, wires, , LEDs (downlights), motor and propeller (ceiling fan). Materials to build the house are NOT included.

Regular price: \$23.00
INTRODUCTORY price: \$20.00

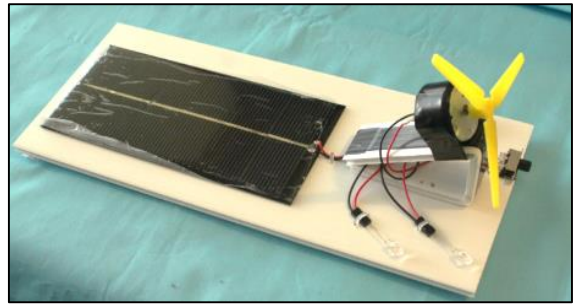


We recommend the house to be made with 3 sides so that the students can see the light and ceiling fan operating. We offer corflute panels cut into appropriate size (some cutting required) to make a Solar house. Includes tape. Please use code **SOLHOUSE** - Corflute House kit.

Regular price: \$23.00
INTRODUCTORY price: \$20.00

The **PROJBRD** - Project Board Kit uses the Solar House project components. The

components are mounted so that students can observe that the electricity generated by the solar panel turns the motor and propeller and



lights up LEDs.

Regular price: \$3.00
INTRODUCTORY price: \$2.75

SOLAR CARS & BOATS

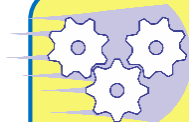
The Scorpio Technology range also includes model solar cars and boats. These are fun to make and more fun to race against one



another.

Check out the **SOLAR CHALLENGE Catalogue** for the range available.

LET'S GO SOLAR !



*Inspirational projects for
 teaching Design,
 Creativity & Technology*



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Invitation

We invite you to visit our display at the following DESIGN AND TECHNOLOGY CONFERENCES in 2017

2017 DATES	ASSOCIATION	VENUE
Friday 12 May & Saturday 13 May	DATTA VIC conference 60,000 Years of Australian Design & Technologies	Harvester Technical College 76 Suffolk Rd, Sunshine North VIC 3020
Friday 02 June 8:30-3:00 pm	DATTA WA conference	Lighthouse Cafe and Convention Centre, 22 Ormsby Terrace Mandurah WA 6210
Thursday 22 June & Friday 23 June	DATTA QLD conference	Kawana Events Centre Lake Kawana Community Centre 114 Sportsmans Parade, Bokarina, Sunshine Coast
Thursday 19 October Friday 20 October Saturday 21 October.	IIATE Teachers conference	Sydney Masonic Centre 66 Goulburn St, Sydney NSW 2000

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