

## Regen Power is Partnering with Solar and Wind Power Training Facility at TAFE SA Regional, Mt Gambier Campus



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### Project System Components

- 1 x 6 kW Proven wind turbine (rotor diameter 5.5 meter), grid connected through Windy Boy 6000A inverter
- 1 x 2.4 kW Skystream wind turbine (rotor diameter 3.7 metre)
- 8 x Suntech 190 Watt panels on corrugated iron roof, facing north, Sunteam 1500 inverter
- 8 x Suntech 190 Watt panels on tile roof, facing south, Sunteam 1500 inverter
- 7 x Hyundai 218 watt panels on a tilted frame, facing west, Sunteam 1500 inverter
- Regen Live Remote Monitoring System capable of accessing data from multiple generating sources

## Education Institute Training Facility

TAFE SA Regional, Mount Gambier Campus, South Australia

TAFE SA Regional, Mount Gambier Campus, South Australia Campus, located 450 kilometres south of Adelaide, can now boast that it has the very best facility in Australia for training technicians and installers involved in domestic renewable energy systems. The \$350,000 'Solar and domestic wind turbine installation and grid connect training centre' was built by TAFE SA Regional students and supported by industry sponsors. It has attracted sponsorship and interest from around Australia in fact.



The site features a ground level roof structure which has a tiled section, a corrugated iron section and a trim deck section so students can practice installing solar panels on all roof types. There are also separate controllers and electronics for each set of installed panels.

Regen Power is proud to be associated with TAFE SA Regional as supplier of a 2.4 kW Skystream grid connected wind turbine and a custom built Live Remote Monitoring System. This currently monitors the wind speed, solar radiation, energy consumption, energy produced by a 6 kW Proven wind turbine, energy produced by the 2.4kW Skystream wind turbine and the energy produced by 3 roof mounted solar photoelectric systems.



Educational Manager, Andrew Knowles (left) and TAFE SA Regional CEO, Elaine Benstead (right) at the opening ceremony.

The TAFE SA Regional 'Solar and domestic wind turbine installation and grid connect training centre' was built by TAFE SA Regional students and supported by industry sponsors. It has attracted sponsorship and interest from around Australia.

Regen Power chairman, Professor Chem Nayar, was the guest speaker at the official opening ceremony and gave a full day workshop on “Micro Grid and Remote Area Power Systems” attended by about 40 engineers and technicians on 10 August 2011.



Professor Chem Nayar conducting the renewable energy workshop.

## Regen Live Renewable Energy Monitoring System

- Unique for use in educational institutions such as schools, TAFE, universities
- Web based and can be accessed by other computers on the network
- It can access devices remotely using Modbus TCP/IP over their network i.e. if they wish to monitor another campus, it is very easy to implement
- Multiple students can access at the same time
- The logged data can be extracted into Excel or CSV format for detailed analysis i.e. solar irradiation and power output of the inverters

Regen Power is also working with TAFE SA Regional, Mount Gambier Campus, to develop a mobile renewable energy training facility on a large trailer that will have both solar panels and a wind turbine fitted. This can be towed to anywhere in Australia, allowing technicians in more remote areas to get hands-on experience with the technology.

Regen Power in partnership with organisations like TAFE SA Regional are able to offer short courses designed for electricians to attain accreditation as installers of grid connected PV Systems within Australia. We also offer short courses and workshops in wind power, energy efficiency and off-grid hybrid power systems.



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## Regen Live Renewable Energy Monitoring System Examples



System introduction screen



Comparison chart of Solar PV System energy generation



Comparison chart of Wind System energy generation

## TAFE SA Regional

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