



Cambodia tesla powerwall

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This blog (originally featured on Victron Energy's Blog and written by our own Sean LePoidevin) relates to a CoGood Australia project which has brought much needed electricity to Kompheim Village School in Cambodia, positively impacting over 300 families in the process.

In 2011, CoGood Australia's founder Gail Jackman became inspired, after hearing an address by Dr Lynn Arnold titled "Slumdog Engineer". She made a decision to kickstart a program to mobilise university students to get involved in humanitarian projects in communities living under the poverty line in Cambodia.

Since then, she has led numerous student groups to Cambodia and has helped to improve the education, health, sanitation, hygiene and nutrition at Kompheim and other villages in Siem Reap, Cambodia. In addition the visiting university students have gained from life-changing experiences, becoming more community minded, more culturally aware and even more ready for the world of work.

In 2017, Gail's non-profit organisation CoGood Australia (CGA) in partnership with the University of South Australia and Off-Grid Energy Australia raised funds for this life changing off-grid energy system.

The students with assistance from industry partners researched, designed and developed a low cost, easy to use renewable stand-alone power solution, specifically tailored to power the newly built computer lab at the Kompheim village school. The project was undertaken in several steps, initially, consultation with the client in Cambodia was conducted to identify the types of appliances/applications (loads) that are used in the computer lab and for how long (i.e. to quantify the electrical energy required to operate these appliances).

Furthermore, research, evaluation and review would be completed on PV panels, charge controller, inverter and a battery components for suitability. Victron Energy products and solutions that can be tailored and adapted to the target market were found to be the most suitable for a multitude of reasons. The final system design and component choice was simulated to ensure the proposed equipment would deliver:

The results of this project demonstrates that a specific small off-grid power solution for small communities in developing nations is feasible and offers significant benefits to all of those involved in such projects.

Victron Energy B.V. kindly donated the Victron equipment for this project, with the assistance of Off-Grid Energy Australia who are an authorised dealer and integrator of Victron PV and battery storage system for both grid connected and off the grid applications in Australia, Asia and the Pacific regions.

The Coles Nurture Fund: Supporting Australian Farmers and Innovators The Coles Nurture Fund is an initiative established by Coles Supermarkets to support Australian farmers, producers,



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Living off the grid has always been a popular choice for individuals who want to live self-sufficiently and sustainably. However, the concept of off-grid living

Whilst the term virtual power plant (VPP) has been around for a while now, what does it actually mean and how will they play an important part in our future energy systems?

It's basically a Powerwall 3 without a power inverter. Tesla can stack this unit with a normal Powerwall 3 - adding 13.5 kWh of energy capacity with each expansion.

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