



Bandung Polytechnic, Indonesia

Bandung has over 40 institutions for higher learning and is among the most popular destinations for education in Indonesia. One of the oldest and most prominent universities among them is Bandung State Polytechnic, a vocational education and training institution that offers courses in accountancy, management, the social sciences, technology and engineering.

In September 2009, Bandung Polytechnic engaged Conergy Singapore to construct a 16kW off-grid solar PV system on the rooftop of their Faculty of Energy building. The objective of the project was to develop an alternative renewable energy resource such as solar energy that was capable of providing for the electricity needs of the building. Solar energy is, by far, the most abundant of all renewable energy resources, especially in a tropical country like Indonesia.

In designing the optimal system for Bandung Polytechnic, factors considered by the project team included the average daily electricity consumption of the building, the length of power autonomy desired and the available surface area on the building's rooftop. In 2 months, the solar system was installed in partnership with Gerbang Multindo Nusantara (GMN), a Jakarta-based solar energy solution provider. Spread over 130 sqm on the Energy building's rooftop are 80 Conergy Power-Plus 200w polycrystalline modules neatly arranged in 3 rows which are expected to supply over 20,500kW hours of clean energy a year.

This solar installation builds on the university's rich heritage to be at the forefront of technology as it continues to shape the future of renewable energy in Bandung. Bandung Polytechnic is strengthening its commitment to expand their role in the renewable energy industry by not only investing in this 16kW solar system but also by developing a renewable energy program in their curriculum to advance solar energy research, education and technology. Furthermore, as one of the first universities in Indonesia to make use of solar energy, this achievement not only increases the availability and quality of reliable clean energy in Bandung, but also serves as a showcase of how institutions and businesses can make a real contribution to protecting the environment.



Data	
Date	January 2010
Location	Bandung, Indonesia
System Capacity	16 kWp
Type of Module	Conergy PowerPlus 200P
Inverter	Conergy ISA 20K
Mounting System	Conergy Solar Famulus
Installation & Commissioning	Conergy and Gerbang Multindo Nusantara (GMN)
Battery Bank	BAE Battery Cell 7PVV 770; VRLA gel OPzV 580 Ah