ghana and ghina government solar training

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The Sunrise course gives participants an introduction to electro-technical basics and the fundamentals of PV solar power, including functionality of PV systems and PV components. This course is the foundational step to pursuing a specialisation in PV systems in an advanced level course.

Learn to install PV systems with 2 full days of practical training. Starting with nothing but a wiring chart and material list, we plan and execute the installation together, from attaching mounting structure up to commissioning and testing of the system.

Master the sun in one week: Comprehensive 5-day course on grid-tied PV systems with battery back-up. Start with the basics and climb to professional level in only one week. Interactive exercises and involvement of the participants make the course content easy to understand and interesting to follow.

Your full name

Your email

GREEN Solar Academy Ghana is managed by Critical Energy Solutions (CES). CES is made up of a team of experts in the energy industry for grid-connected and stand-alone installations, and hybrid connections. CES also has expertise in energy systems analysis, project feasibility study reporting, environmental impact assessment as well as the economics of energy.

The sun is a source of energy for every living thing on the planet and cannot only contribute to the production of energy and growth in countries that commit to PV solar energy, but create opportunities, jobs and improve the of quality of life. Ghana is ideally positioned to grow its solar industry in a meaningful manner in the future. In countries like Germany the government took initiative to make PV solar financially viable and create an environment for the industry to grow and now it is one of the best producers of solar power in the world.

Despite this there have been consistent power supply challenges in the country. This can be attributed to the lack of fuel supply, water level problems with Akosombo Dam and the countries dependence on natural gas-powered generation. The government tried a solution to sign PPA contracts for 2,300 MW was on a take-or-pay basis, meaning that the payment is due if the power is used or not. This has led to USD 500 million in costs yearly (2.5 billion Cerdis) in unused electricity.

The introduction of solar energy to the Ghanaian power problem could be a great boon to the country and its people. It would reduce dependence of fossil fuel energy, introduce decentralised supply of energy sources, reduce dependence on Akosombo Dam, reduce transmission loss, reduce energy costs for citizens and create a

stable energy supply to help cut demand peaks.

In a recent study it has been estimated that a total of 20 manufacturing job-years and 13 installation job-years are created for each Mega-Watt power (MWp) of solar panels installed. GREEN has seen the fruit of this in South Africa and the countries involvement in GREEN"s solar academies and courses. The need for high-level quality and professional courses in the PV solar industry is important and GREEN hopes to provide that.

GREEN is currently leading a consortium of European solar and storage companies to venture into the Western African markets. We are continuously looking for partners in the industry who would like to enter or establish themselves in an African market using our courses as an entry point and offer different ways of cooperation. We use our experience not only in training but also in wholesale and project development in Africa and Europe to shape and manage (multi-national) projects around renewable energy topics.

From the start Ghana can begin to develop its reliance on renewable forms of energy that are more reliable, like PV solar power. The advantages of this are great as the government can reform the current implementation of energy supply to its citizens and the means of regulation. By connecting the customer with the distribution utility and installing isolation and protection devices citizens can begin using the process of net-metering in powering their homes. This would change the face of the energy economy and be both advantageous for the customer and the distribution utility.

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