GREEN Solar Academy

Africa's Premier Training Institute for Solar Power

Commercial PV System Design

Masterclass on the design of C&I PV systems

In this 3-day advanced course, you'll learn how to grow from residential to commercial PV markets.

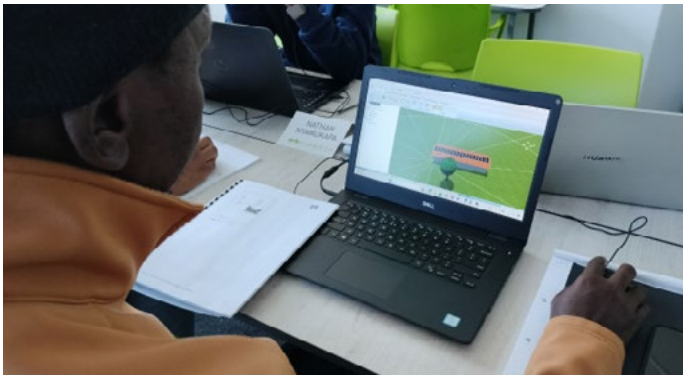
We will explore key components of commercial systems, such as the latest module technologies, 3-phase grid-tied and hybrid inverters, high-voltage batteries, and the integration of generators into grid-tied systems.

You will master the design of commercial PV systems with or without battery storage, including load profiles, site assessment, system sizing, component selection, wiring diagrams, grid integration, and the SSEG application process.

And together we'll examine typical obstacles that arise during project implementation, including project organisation and problem-solving strategies.

Additionally, you'll gain hands-on experience using software like PV*SOL premium and Excel to size commercial systems based on real-life installations.

Understand commercial PV system design



Learn efficient and precise design

Practice on real case studies

Pricing

- The course costs ZAR 7,200 (excl. VAT)
- 10% discount for Alumni
- 12% early bird discount for bookings 8 weeks before
- Including lunch, coffee breaks, exercise handouts, certificate fees

Book online at solar-training.org

Accreditation

This course is accredited by the German Solar Energy Society (DGS). You receive an internationally-recognised certificate of participation issued jointly by GREEN Solar Academy and DGS and 3 CPD Points validated by SAIEE as per ECSA policy (South Africa).

SAIEE

*** 3 CPD Points ***

24_09_27 T&Cs apply

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Target Audience

Anyone looking to advance their PV knowledge and venture into commercial PV design:

- Technicians, engineers and architects with advanced knowledge of solar PV
- PV business owners or planners who want to realise larger PV projects in the C&I sector
- Advanced professionals who want to specialise in PV design rather than the practical installation
- ECSA-registered engineers (3 CPD points)

After this course, you will be able to design & supervise construction sites and commission commercial PV systems.

Our trainers

Our design trainers all have comprehensive experience and share valuable knowledge from actual projects. All GREEN trainers undergo high quality training in teaching methods and our standardised course material before becoming accredited as GREEN trainers.

Prerequisites?

This advanced training course is designed for PV practitioners with a solid foundation in solar PV fundamentals and grid-tied PV system design. It is also suitable for graduates of our SuperSolarSchool programme.

To prepare for the course, you can watch some tutorials on the basics of PV*SOL premium here.

Our unique approach

This course has been consciously created with input from experienced planners and project managers. It focuses on practical examples and exercises to ensure maximum retention of the learning material.

Main Topics

- **Modules and mounting systems for rooftop & ground-mounted systems >50kWp, generator integration**
- **Electrical safety for PV systems, anti-islanding, protection devices, lightning, shock and thermal risk protection**
- **Financial and technical planning for commercial-sized PV systems, procurement**
- **Exercise on design of a 150kWp rooftop PV system based on a case study**
- **Storage integration and commercial-sized hybrid inverters**
- **Expert session with Q&A on a real-life case study**
- **Design exercise using PV*SOL premium simulation software** *(trial license included)*

PV*SOL premium

Interested in the Designer course? Contact us!

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