

Commercial PV Design

Move beyond residential and access higher-value solar projects.

The fast-growing commercial and industrial solar market rewards professionals who can design and deliver complex systems that are technically sound, commercially viable and built for long-term value. This three-day advanced course gives you exactly that capability.

Learn to:

- Assess sites, load profiles and energy requirements
- Size and design hybrid C&I PV systems from 50 to 1000 kWp
- Select and integrate modules, inverters, batteries, mounting systems and generators
- Develop system layouts, wiring diagrams and protection concepts
- Navigate grid integration and SSEG applications
- Plan technically and financially viable C&I PV projects
- Solve common commercial PV design and implementation challenges

Includes design of a 150 kWp rooftop system design based on a case study and instruction in PV*SOL design software (trial licence included)*



You'll work through the full design process for commercial systems from 50 to 1000 kWp: load profiles, site assessment, system sizing, component selection, wiring diagrams, grid integration, and the SSEG application process.

Deepen your expertise

We cover the latest in commercial technology: current module options, 3-phase grid-tied and hybrid inverters, high voltage batteries, and generator integration. And because real projects rarely go smoothly, we look at common implementation obstacles and practical problem-solving strategies too.

By the end of the three days, you'll have the skills and confidence to quote, design and manage commercial C&I PV projects.

Accreditation

GREEN Solar Academy is the recipient of the 2025 **SAPVIA Award for Empowerment Through Skills Development** and a QCTO-accredited Skills Development Provider. You receive an internationally-recognised certificate of participation issued jointly by GREEN and DGS (the German Solar Energy Society).



Target Audience

- Solar installers and technicians moving into commercial PV
- Engineers and architects working on larger PV projects
- PV business owners, commercial project planners and professionals specialising in PV system design and planning
- ECSA-registered engineers (3 CPD points)

Our Trainers

GREEN's trainers undergo high quality training before we allow them to teach at any of our courses. Also, all have experience in the PV industry and the majority run their own solar business for first-hand practical experience.

Prerequisites

This is an advanced course. Participants should have a solid working knowledge of solar PV fundamentals and grid-tied system design before attending - equivalent to completing our SuperSolarSchool or comparable hands-on experience in the field.

Bookings

- **Discounts for groups of 3 or more** for training at one of our branches
- Payment must be made 2 weeks before the start of the course
- Including light lunch, coffee breaks and exercise handouts

Book online at solar-training.org

[T&Cs](#) apply

Get certified as a GREEN C&I PV Designer

After your training, pass our GREEN C&I PV Designer exam to earn the certification that positions you as a commercial PV specialist.



Continue designing professional systems after the course with PV*SOL Premium design software. GREEN Alumni receive **15% discount** on their first 12-month licence. Visit pvsol.co.za.



PV*SOL premium



Interested in booking for your team? Contact us:

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