

Training Course of Photovoltaic Power Conversion Systems

Course Structure

Day	Session	Topics to be covered
1	1	Renewable energy technologies, photovoltaic systems, grid-connected, isolated and hybrid PV systems
	2	Energy estimation
2	1	PV cells, modules, array, characteristics curves, curve tracer, fault identification, shading issues, module mismatch, Label information
	2	Centralized and distributed PV systems, central, multi-string, string and micro inverters, DC optimizers
3	1	Single and three phase inverter topologies, DC-DC converters
	2	Maximum power point tracking fundamentals, algorithms, issues
4	1	Energy storage – battery and capacitors, charge controllers
	2	Switch gears and isolators, fuses, diodes, DC and AC cables
5	1	Simulation tools and their use
	2	System design using PVsyst
6	1	Code of practice
	2	Standards