



SOLAR PHOTOVOLTAIC FEASIBILITY ASSESSMENT

Course Outline

COURSE OUTLINE

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| UNIT 1: WHAT IS SOLAR PV? | |
| Module 1 | Introduction to Solar PV |
| Module 2 | Solar Irridation |
| Module 3 | Architecture |
| Module 4 | Grid feed-in and legislation |
| UNIT 2: TYPICAL SOLAR PV COMPONENTS | |
| Module 1 | Modules |
| Module 2 | Mounting structures and cables |
| Module 3 | Inverters |
| Module 4 | Batteries and charge controllers |
| UNIT 3: SYSTEM SIZING | |
| Module 1 | Load profile development |
| Module 2 | Load profiles and inventories |
| Module 3 | Design considerations and sizing constraints |
| UNIT 4: SYSTEM MODELLING | |
| Module 1 | Block diagram design and system modelling |
| UNIT 5: SUNNY DESIGN WEB SIMULATIONS | |
| Module 1 | Sunny Design web software |
| UNIT 6: SYSTEM COSTING AND FINANCE | |
| Module 1 | System costing and financial components |
| Module 2 | Financial indicators |
| Module 3 | The feasibility study |

Number of learning hours: 16 in total, allocated is 1 hour per learning module

Number of videos and audio clips: 59

Number of exercises: 61