

Testing and Commissioning

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Definition

- After doing the initial inspections and documentation of plant, testing is the next most important step in commissioning.
- All Equipments should be tested sequentially.
- PV testing is carried out by qualified PV technicians / PV engineers, many of whom are qualified electricians.
- Testing can be carried out at various stages, for example, at the pre-installation stage (testing of individual modules), while commissioning (where the system is being installed) or during the ongoing operation and maintenance stage (to ensure the PV system integrity and performance is maintained).

Commissioning

- is a formal procedure for ensuring the quality of an installation. The process confirms your system is designed, installed, tested, and operating in accordance with the project specifications and client's expectations.

Major Tools used



Multimeter



Clampon ammeter



Hydrometer



Screwdrivers



Nut drivers



Crimping tool set



Measuring tape



Angle gauge



Laser distance/ angle meter



Compass



Sun Pathfinder



Combination square



Battery Safety accessories



Battery water filler



Battery Maintenance kit

Testing and commissioning

- Photovoltaic cells test (STC & NOCT)
- Wire test
- Earthing test
- Junction box test
- Inverter/controller test
- Load test
- Output power test