

O&M of SPV System

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O & M

- An operation is about remote monitoring, supervision and control of the PV power plant.
- It also involves liaising with or coordination of maintenance activities.
- A proper PV plant documentation management system is crucial for Operations and maintenance

Maintenance

- Maintenance is usually carried out on-site by specialized technicians or subcontractors, according to the Operations team's analyses.
- A core element of maintenance services, Preventive Maintenance involves regular visual and physical inspections, as well as verification activities necessary to comply with the operating manuals.
- The annual Maintenance Plan (see an example in the Annex) includes a list of inspections that should be performed regularly.
- Corrective Maintenance covers activities aimed at restoring a faulty PV plant, equipment or component to a status where it can perform the required function.

Photographs



Purpose

- Conduct or ensure ongoing operations and maintenance (O&M), including repair and replacement (R&R).

Task

- O&M agreements
- Warranties
- Monitoring system
- System performance
- Production guarantees
- Buyout Options

Outcomes

- Ensure responsible party carries out O&M/R&R
- Measuring and tracking success
- Correlate with business plan and strategic energy plan
- Contract compliance
- Reporting of generation
- Met or exceeded energy and financial performance

Troubleshooting and Repair

- As with any troubleshooting call, try to get as much information from the customer as possible.
- Try to find out when the problem occurred and when the last time the PV system operated normally.
- Get as much information, such as prints, outputs and wiring diagrams, as possible.

Cont'd

- There are two failure modes which the solar system may be experience. These two conditions which may require troubleshooting are:
- Zero Power Output (No Power)
- Low Voltage Issue