



PV SYSTEM OPERATIONS AND MAINTENANCE FUNDAMENTALS

Presented by
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PV System Operations
and Maintenance
Fundamentals

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Report Overview

As the photovoltaic (PV) market grows and matures, the industry's focus is shifting from manufacturing PV module technology, inverters, and components to properly and safely operating and maintaining installations. PV installation practices are expected to be 20 years or more successful and proper maintenance is an integral part of successful and efficient operation. Regular operations and maintenance (O&M) is key to maximizing system production and return on investment (ROI), and as the industry moves to higher voltages, the need for qualified service personnel and their safety procedures is becoming increasingly important.

This previously O&M guide is revised to help qualified personnel safely maintain and repair PV systems. It identifies currently being used major safety requirements during PV servicing and repair and provides details for a number of O&M tasks within the broader PV community. There are currently many working groups focused on this issue. It is expected that they will provide a comprehensive O&M guide in the next few years to the industry. This report serves as an introduction to O&M for PV practitioners.

This introductory report includes previous guidelines for PV system maintenance and updates for inspection practices for grounded PV systems. This report does not cover ungrounded, stand-alone, or battery backup systems.

Why the Report is Important

Clear, detailed O&M guidelines help ensure a safe working environment for technicians and protect PV system production and ROI for owners and investors.

Examples of Basic Safety Issues from the Report

The dangers of working with live electrical equipment require that the O&M personnel be aware of safety procedures intended to prevent accidents or injury. Although this is not an exhaustive list, the authors suggest the following steps be taken in working safely on PV systems:

- Before opening the PV system, read all instructions for each product.
- All system components must be assessed to be energized with maximum direct current (dc) voltage up to 1,000 volts (V) and personnel verify that the voltage has been removed.
- All equipment doors should remain closed with latches tightened, except when they must be open for inspection or testing.
- Only qualified personnel who meet all local and governmental code requirements for training and training for the installation of electrical power systems with grounding, current, and dc voltage up to 1,000 V ac and 1,000 V dc should operate around grounded PV system servicing.
- To reduce the risk of electric shock, only qualified persons should perform servicing other than that specified in the installation instructions.
- To protect against all sources of voltage from the system, the working point must be de-energized at that source.
- Always follow lockout/tagout procedures.
- Always check for ground faults.

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Ying Liu

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