

# Photovoltaic support quality management report



## Overview

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This document is part of a series of public reports summarising the consortium's activities and findings, available for download on the project's website at [www](#). Regulatory policies, new online production capacity, and evolving BOM supply chains result in constant change globally for PV module manufacturing. The data summarized in this 2025 PV Module Manufacturing Quality Report substantiates why buyers continue to recognize the value of partnering with an experienced global quality assurance provider to effectively PV module supply for buyers and . The expansion of photovoltaic systems emphasizes the crucial requirement for effective operations and maintenance, drawing insights from advanced maintenance approaches evident in the wind industry. This review systematically explores the existing literature on the management of photovoltaic . IEA PVPS Task 13 engages in focusing the international collaboration in improving the reliability of photovoltaic systems and subsystems by collecting, analyzing and disseminating information on their technical performance and durability, providing a basis for their technical assessment, and . This report is available at no cost from the National Renewable Energy Laboratory (NREL) at [www](#). In this 11th edition of the Scorecard, Kiwa PVEL is proud to showcase a broad range of Top Performer manufacturers and module model types.

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### [Reliability and System Performance, Photovoltaic Research, NLR](#)

We study long-term performance, reliability, and failures of PV components and systems, both at NLR and through collaborations elsewhere.

### 13 Reliability and Performance of Photovoltaic Systems

Provide a common platform to summarize and report on technical aspects affecting the quality, performance, and reliability of PV modules and systems in a wide variety of environments and



### The 2025 PV Module Manufacturing Quality Report

Deploy the right level of quality assurance activities for each case. Provide insights for procurement decisions for developing projects and pipelines. Overall goal of performing quality insurance is to

### Kiwa PVEL PV Module Reliability Scorecard

The 11th Edition of Kiwa PVEL's PV Module Reliability Scorecard recognizes manufacturers with excellent test results in the PV Module Product Qualification Program.



### Proposal for a Guide for Quality Management Systems for PV

This Technical Specification is meant to be used



## The 2025 PV Module Manufacturing Quality Report

PV module supply for buyers and manufacturers. The U.S. saw increased domestic manufacturing capacity, driven by the IRA (Inflation Reduction Act)

in assessment audits of the PV module manufacturer's Quality Management System (QMS), and to form a common basis for audits by various certifying



## Quality Management Plan

This document describes the project management organization, roles, members and execution procedures of PVSITES project for progress and control monitoring, meetings, progress reporting,

## Photovoltaic support quality management

A quality management system for PV module production is one of the key elements to secure the long-term reliability of PV modules. This paper describes the requirements for quality



## [Photovoltaic systems operation and maintenance: A review and future](#)

Gaps and future research directions for PV O&M management are proposed. The expansion of photovoltaic systems emphasizes the crucial requirement for effective operations and

## Solar Photovoltaics Supply Chain Review Report

The Solar Photovoltaics Supply Chain Review, produced by the DOE Solar Energy Technologies Office with support from the National Renewable Energy Laboratory, will help the



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