

# PV MODULES TESTING, CERTIFICATION AND VERIFICATION

Harness Opportunities in the PV Market

- Solar power is one of the most attractive form of Renewable Energy (RE) today.
- Malaysia is one of the world's leading solar PV manufacturers.
- The country aims to increase RE capacity mix to 31% by 2025 and 40% by 2035\*.
- To-date more than 1000 MW of solar capacity installed in Malaysia.
- Government-led initiatives to support the growth of solar:
  - Large Scale Solar Programme
  - Net Energy Metering Scheme
- Increased demand for durable and quality PV modules with the rise in solar farms/projects.
- SIRIM QAS offers comprehensive conformity assessment solutions to help PV industry players unlock opportunities in the market.



## What we offer

### Compliance Testing

- Verifies the performance of PV modules, electrical and mechanical safety, and ability to operate in various environmental conditions.
- Based on MS/IEC 61730 and MS/IEC 61215 standards.
- Issuance of SIRIM test reports.
- Recommended for:
  - Manufacturers
  - Traders
  - Importers

### Certification

- Certifies the safety and performance of PV modules and ensures continuous compliance with certification requirements.
- Based on MS/IEC 61730 and MS/IEC 61215 standards.
- Issuance of SIRIM certification mark.
- Recommended for:
  - Manufacturers
  - Traders
  - Importers

### Verification Testing

- Verifies output performance, rate of degradation of PV modules and capability to withstand environmental and high-voltage stress prior to installation.
- Based on MS/IEC 61730, MS/IEC 61215 and IEC TS 62804-1 standards.
- Issuance of SIRIM certification mark.
- Scope of testing:
  - 1) Potential Induced Degradation (PID) Test
  - 2) Environmental Impact Degradation (EID) Test
  - 3) Performance Re-assessment Test

- Recommended for:
  - Buyers
  - Solar farm owners
  - Financial institutions
  - Installers

### How does conformity assessment help?

- Increased demand for durable and quality PV modules with the rise in solar farms/projects.
- Enhance marketability of your PV module and gain access to key markets.
- Help with performance and output monitoring.
- Meet customer specifications and procurement requirements of solar programmes.
- Improve product design and production.
- Secure return on investments and the economic viability of your solar project.

### Why SIRIM QAS?

#### Comprehensive

- State-of-the-art facilities to conduct testing, certification and verification with fast turnaround time.

#### Stellar track-record

- Experience and expertise in providing testing, inspection and certification services.

#### Globally recognised

- Recognised as CB Testing Laboratory and National Certification Bodies (NCB) i.e. our test reports and certifications are globally accepted in 50 countries worldwide.

#### Credible

- Accredited by the Department of Standards Malaysia with:
  - i. MS ISO/IEC 17025 under the National Laboratory Accreditation Scheme (SAMM)
  - ii. MS ISO/IEC 17065 under the Product Certification Scheme



**What are you waiting for? Reach out to us today!**

\*Report on Peninsular Malaysia Generation Development Plan 2020 (2021-2039)