

# 再生能源產品檢測標準與驗證能量建置委辦計畫

執行單位

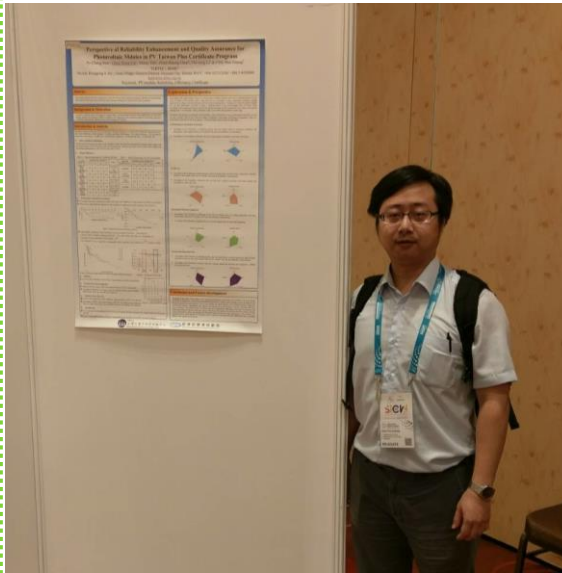
財團法人台灣大電力研究試驗中心

計畫主持人

葉志明

- 促進太陽光電國家標準與國際同步，打造完備之檢測環境，適時滿足產業所需之技術服務，並確保實驗室量測之正確性和提升試驗品質，增加業界對測試結果之信心。建立檢測能量協助國內太陽光電業者順利取得產品驗證，並作為產品研發改進之依據。

- ◆ **完成IEC 61215-1 (2016-03-09) 等5份標準草案**：供作為國內相關廠商之商品開發、設計與品質之標準，促使產業商品接軌國際規格，提升產品競爭力。
- ◆ **於新加坡Asia Clean Energy Summit發表技術論文**：向國際推展台灣技術能力並交流，確保試驗室之技術水準。
- ◆ **提供檢測驗證校正服務**：協助廠商向客戶證明其產品性能、可靠度及穩定性，提升其市場競爭力。
- ◆ **太陽光電能力比對試驗**：確保實驗室量測之正確性和提升試驗品質，提高廠商對檢測標準及驗證之信心。



- 藉國內外檢測技術相關論文發表，有助維持並提升實驗室之量測及驗證相關技術能力。透過活動也將國內相關規範及驗證技術進行國際化之推廣與討論，提高台灣國際地位與能見度。
- 藉「太陽光電能力比對試驗」，探討實驗室的量測表現與測試一致性的影響因素，協助實驗室瞭解本身測試結果與整體測試結果的差異，提升服務使用者對測試結果的信心。
- 參與太陽光電國際標準組織會議及相關活動，帶回之資訊有助太陽光電模組製造商提升其產品品質和製造技術能力，貼近國際需求提升競爭力。
- 本計畫研提之 5 份CNS國家標準制定草案可健全國內CNS 標準與國際同步，提供國內對太陽光電模組零組件規格要求之參考，使再生能源之應用推廣更有安全保障。

# Establishment of testing standards and certification capabilities for renewable energy products

Execution Unit

TAIWAN ELECTRIC RESEARCH & TESTING CENTER

Project Director

YE, JHIH-MING

- Improving and make the Taiwan national standards of Photovoltaics follow up international standards. Building up a complete testing environment with decent equipment to satisfy the industry's technical services, and ensuring the accuracy of laboratory measurements and enhance the quality of the tests to increase client's confidence in the test results. Increasing the tests capacity to help PV manufacturers successfully obtained products certifications, and helping them development and improve their PV products.

## ◆ Complete 5 x CNS PV standards

: For PV related industries using in products development, design, quality assurance.

## ◆ Attending the Asia Clean Energy Summit in Singapore :

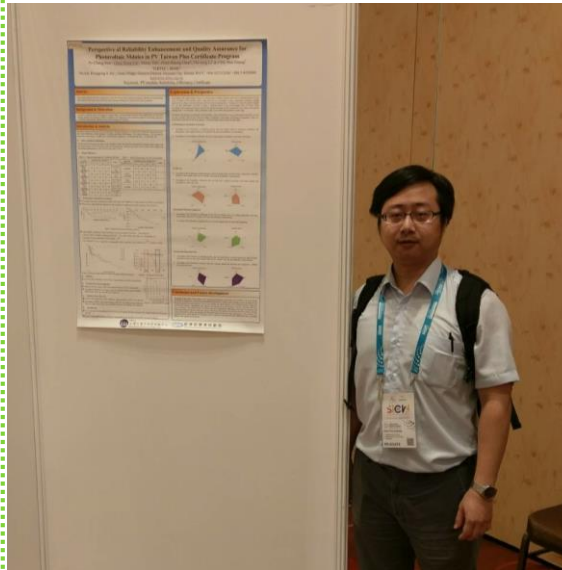
Publishing paper and promoting Taiwan's technical capabilities to the world.

## ◆ Providing Test and Certificate services :

To help manufacturers prove their product stability and performance to their customers.

## ◆ PV testing ability comparison test :

To ensure different labs has similar PV testing ability, and further more increase their tests accuracy and quality.



- By publishing PV relevant papers on testing techniques in Taiwan and abroad will help to maintain and enhance laboratory-related technical capabilities in measurement and verification. Through the activities we have a chance to share the PV test standards and techniques to the world, also can improve Taiwan's international status and visibility.
- Through the 「 PV testing ability comparison test 」 to investigate the factors that would influence tests performance and conformity between different labs, helping them to find what causes the differences, and improve their service ability to make their clients satisfied.
- Attending IEC TC 82 conference and relevant activities can bring back variety information, and helping PV manufacturers to improve their product quality and production techniques, and increase their international competitiveness.
- We complete 5 x CNS PV standards in this project, for PV related industries using in products development, design, and quality assurance.