

Memorandum

Ref: M15-2-V1

Subject: Required standards for PV modules.
To: Whom it may concern
From: Pierre El Khoury, Director of the Lebanese Center for Energy Conservation
Date: May 29, 2015
Reference: Contract signed between BDL and LCEC "Technical Support Consultancy Services Agreement in Energy Efficiency and Renewable Energy"

The Technical Support Unit to the Central Bank of Lebanon at the Lebanese Center for Energy Conservation (LCEC) sets the complementary requirements for Photovoltaic Projects approved under the National Energy Efficiency and Renewable Energy Action (NEEREA) to ensure reliable, proper, and durable installations.

- (1) This memo involves imported terrestrial Photovoltaic modules of crystalline silicon and thin-film types.
- (2) All modules used in projects submitting to NEEREA loans, should have a certificate of compliance to either of the following standards:
 - a. IEC 61215:2005: CRYSTALLINE SILICON TERRESTRIAL PHOTOVOLTAIC (PV) MODULES - DESIGN QUALIFICATION AND TYPE APPROVAL
 - b. IEC 61646:2008: THIN-FILM TERRESTRIAL PHOTOVOLTAIC (PV) MODULES - DESIGN QUALIFICATION AND TYPE APPROVAL
- (3) Additionally, all modules should have a certificate of compliance with the followings standards:
 - a. IEC 61730-1: PHOTOVOLTAIC (PV) MODULE SAFETY QUALIFICATION – PART 1: REQUIREMENTS FOR CONSTRUCTION
 - b. IEC 61730-2: PHOTOVOLTAIC (PV) MODULE SAFETY QUALIFICATION – PART 2: REQUIREMENTS FOR TESTING

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- (4) All up-to-date certificates must be submitted with the proposal. These certificates must be issued by an internationally recognized certification body.
- (5) LCEC reserves the right to judge the reliability of the certification body on a case-by-case basis.

Companies are hereby required to abide by these recommendations to meet the requirements set by the LCEC, in order to stay eligible for NEEREA green loans. LCEC remains ready to answer any inquiries or questions via email at energy@lcecp.org.lb, or by phone at 01 565108.



Pierre El Khoury
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