

ASSESSMENT OF THE CURRENT STATE OF PHOTOVOLTAIC PANEL MOUNTING SYSTEMS AND RELATED CONCERNS IN NORTHERN CYPRUS

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Received: 28.08.2022; Revised: 23.01.2023; Accepted: 24.02.2023

Abstract

The efficiency of energy resources and the research and development of electricity generation technologies from renewable energy sources are becoming increasingly important as the use of renewable energy has increased. Northern Cyprus has undertaken attempts to boost the use of renewable energy sources and reduce its reliance on petroleum-based products, similar to many other countries, and as a result, Solar energy utilization has recently grown in this country. This article assesses the current state of PV panel mounting systems and related concerns in Northern Cyprus. In this regard, extensive and reliable data were collected from five distinct sources including authorities, ministries, stakeholders, and inspections. The current state of PV panel mounting systems was evaluated based on data analysis, and the main weaknesses, major concerns, and critical problems were identified. Ultimately, two fundamental recommendations were made to overcome the identified problems. First, developing stringent guidelines to properly use renewable energy sources while minimizing side effects and unwanted losses, second, considering quality control and strict supervision to inspect the implementation of standards.

Keywords: Northern Cyprus; Photovoltaic panels; Power generation; Renewable energy; Resource efficiency; Solar energy.