

Senior Thesis Brief Description

Thesis Title	Quantity surveying aspects of renewable energy technologies applications
Programme of Studies	BSc in Quantity Surveying, Frederick University, Cyprus
Course	ASSP 450 Senior Project
Area of Study	Sustainable Energy Technologies – Structural Aspects
Student's Name	Andreas Michael
Students Reg. Number	5777
Supervisor	Dr.-Ing. Paris A. Fokaides, V. Lecturer, Civil Engineering Department
Supervisory Committee	Dr. Christakis Onisiphorou, Lecturer, Civil Engineering Department Dr. Skevi Perdikou, Lecturer, Civil Engineering Department
Semester	Spring Semester 2014
Short Description	The main objective of the project entitled „Quantity surveying aspects of renewable energy technologies applications“ was the quantitative definition of building and electromechanical elements that are typically used in large RET applications. In terms of this study, a 1 MW photovoltaic farm was thoroughly analysed and measured aiming to define the bills of quantities as well as the project's cost estimation. Different alternatives of the RET applications were also defined and presented. The alternatives were classified to those having a direct impact on the energy performance of the plant and those with an indirect impact. This study also determined the financial performance of the several construction alternatives to be proposed, aiming to the definition of the most cost effective solutions.