

STUDY OF PHOTOVOLTAIC SYSTEMS (8 HOURS)

Each PV system includes many complex parameters. The experience has taught that the correct installation such a system **ensures** the investment - both for the investor and the financial institution over time. The seminar **focuses** on the proper design and in the designer's instructions to the installers of the P/V system and the conditions of the study to comply with international standards (eg EN 62446:2009, IEC 60364, IEC 62305).

Aimed at P/V installation's designers, contractors, electrical engineers, mechanical engineers, electricians, bank advisors, insurance advisors and those who would like to gain a comprehensive knowledge of the proper installation of P / V systems.

At the seminar analyzed and presented the below:

Introduction

- General information about grid connected systems: A brief reference to the current legislation, system's description, requirements of the P/V system
- Note the design process: Statement on parameters that should be considered before the study, statement on problems that arise when studying a system.

Design - Planning

- System Design: Siting of equipment, shades, surge protection, cabling, support structure
- Demonstration design software
- Case study 3 (three) Grid Connected (indicative 10-100-500KWp)
- Installation Materials: Method of material's choice, materials required certificates, sizing materials
- Description of the European standard EN 62446:2009 mentioned in the inspection and certification PV system connected to the grid
- Methods based design of Greek and international standards (HD 384, EN 62446, IEC 60364, IEC 62305)
- Calculation of voltage drop
- Factors affecting the PR