

Presentation and development of the photovoltaic project

Of the Don Bosco Institut in Alexandria.

The idea of the project started from Prof. Marco Chiadò Caponet, (Professor from MAE), he procured from Germany's the first solar panel with accessories and designed and build the first inverter. The project was supported by the electrical workshop of the institute with Father Jan Bednarz. In november 2009 was created the first photovoltaic course for the students of the Institute. During the course the students realized their inverter.



In Dicembre 2010 and January 2011, the course was, once again, proposed to the students and was leaded by Father Jan. During the course was installed the photovoltaic system on the roof of the institute that serves the illumination of the corridors of the institute during the night. In addition, students have realized their inverter.



In 2011, and thanks to the friends in Poland, we had the possibility to purchase the material to expend the knowledge of photovoltaic systems. During the month of December and January, 27 students of the institute participated in the course already enriched with the audiovisual material prepared by the professor of the institute.



In April 2012, our institute has participate in the Festival of Science organized by the Biblioteca Alexandrina, showing our photovoltaic laboratory. The presentation of the photovoltaic systems has been made by our students, who already attended the course. The photo below show the extent of interest aroused in the participants.



During the spring and the summer of 2012, we made an advanced course at the Don Bosco Institute in Cairo, with more than 120 of hours, and it was aimed for the teachers and the most deserving students of the Don Bosco Institutes in Cairo and Alexandria. The course was held by Prof. Marco Chiadò Caponet, and was entitled “Production and conversion of the solar power for domestic use”. The course consisted of the theoretical and practical parts in the laboratory in order to address the design, construction, installation and maintenance of photovoltaic systems and their power conversion. The main goal of the course is to prepare the participants for the construction of photovoltaic system and the actual implementation of training course in this field, that can be held in a permanent way at the Don Bosco Institutes.



Currently we are preparing to take another step forward. Fit three different connection systems for photovoltaic panels on the roof of our theater, with the total capacity of 10 Kwp. The main object is to exploit the real plant to start an evening classes for operators and maintenance of photovoltaic systems. We can't hide that the photovoltaic system installed at the our institute will bring energy saving and cost reduction for the electricity consumed.