


Event:
Date:
Place:

ENERGY in BUILDINGS 2017
Saturday October 21, 2017
Athens, Hellas



#	Anthopoulou Evaggelia Electrical and Computer Engineer	
Title:	Project Specialist at KAFKAS S.A., Thessaloniki, Greece	
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Presentation title:	Energy Efficient Lighting in Existing National Motorways. The Case Study of Egnatia Odos	
<p>The existing road lighting installations in Greece use high pressure sodium lamps without the ability of adaptive lighting and present a lot of waste of energy. Nowadays LEDs luminaires are much more efficient even than those with High-Pressure Sodium lamps that are mounted in road lighting installations. Moreover LEDs give the opportunity of adaptive street lighting, because of their easy dimming function, that the new standard EN 13201/2015 includes.</p> <p>Scope of this thesis is to design an efficient lighting system on an existing motorway. Egnatia Odos (E.O.) one of the largest national roads in Greece was selected as a case study. The lighting design was performed 15 years before according a previous version of EN12301. Several Road lighting scenarios are proposed in order to design a lighting system using new lighting technology and selecting energy-efficient lighting management technologies and equipment.</p> <p>A number of typical interchanges as well as a typical bridge were selected and a comprehensive study of a more efficient lighting system was carried out using the necessary data. Five scenarios were examined. First scenario was the selection of LED luminaires and installation in existing position according the version of EN13201 that was in force during the construction of the project. Second scenario was the selection of LED luminaires and installation in existing position according the version of European standard EN 13201/2015. Third scenario was using energy-efficient lighting management technologies for adaptive lighting to the second scenario. Fourth scenario was the selection of LED luminaires and installation in new position according the version of European standard EN 13201/2015. The last but not least scenario was using adaptive lighting to the fourth scenario.</p> <p>Finally, the benefits from the implementation of the proposing scenarios as an investment and the estimation of the return of investment of each scenario are presented.</p>		

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CV:

PERSONAL INFORMATION – CONTACT DETAILS

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EDUCATION

2011 - Present **MA, Hellenic Open University**

Lighting Design MA

Title Thesis: *Energy efficient lighting in existing national motorways.*

1999-2007 **School of Engineering, Aristotle University of Thessaloniki**

Degree in Electrical and Computer Engineering

Title Thesis: *Multiple Input-Output (MIMO) Systems operating over correlated fading channels.*

LANGUAGE SKILLS

Very good in English (First Certificate, University of Cambridge)

Native Language: Greek

WORK EXPERIENCE – TRAINING

➤ **12/2015- Present** **KAFKAS S.A., Thessaloniki**

Position:

Project Sales Specialist

➤ **12/2006-12/2015** **ΜΑΚΤΕ ΕΠΕ, Thessaloniki**

Position:

Design and Supervision of electrical mechanical facilities (building, industry, motorway etc).

Electrical Studies include Studies of MV/LV Substations, Electrical Distribution, Lighting Design, Landscape Lighting, Energy Saving, Data and Voice Systems, Earthing System, Mechanical Studies include Water supply, Drainage, Heating and Cooling System.

Additional tasks and duties:

Participation in the Quality Assurance Program

➤ **07/2005-09/2005** **Public Power Corporation S.A., Thessaloniki**

Training of the supervision, operation and management of anomalies, troubleshooting and improvement of telecommunications equipment in substations.