

Event:
Date:
Place:

ENERGY in BUILDINGS 2018
Saturday November 3, 2018
Athens, Hellas



#	<p>Christina Gkazgka Electrical Engineer, Lighting Designer</p>	
Title:	Electrical Engineer Freelancer , Athens, Hellas	
email:	chgazga@gmail.com	•
Presentation title:	<p>Daylight as Basic Parameter on Lighting Design in Tunnels with Vertical Openings</p>	
<p>In lighting design, tunnels with vertical openings are usually characterized as tunnels, while they are specific structures because of their lateral openings. Their artificial lighting installation of tunnels with vertical openings is designed considering that they are tunnel (fully closed) so any effect of natural lighting is not taken into account in their design inside. This results in a missed opportunity for a more efficient design and thus the consumption of larger amounts of electricity.</p> <p>The purpose of this research is a) to separate the design of a tunnel with vertical openings against the lighting design of a normal tunnel and b) to introduce a new classification in their lighting design and to examine any difficulties that arise.</p> <p>An existing tunnel with vertical openings is examined in three stages. First stage refers in the lighting design of an existing tunnel with vertical openings taking into account the daylight through the openings of the tunnel with vertical openings. Radiance as a validated software is used as well as the creation of a mathematical model in batch scripts, in order to calculate the incoming daylight. Lighting levels are calculated with the use of the aforementioned data for a typical meteorological year in hourly step. In the second stage, there is examination of the requested artificial lighting taking into account the contribution of daylight.</p> <p>Taking into account the results, the benefits from applying the new methodology are listed.</p>		

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CV:	
Personal information	
Name	Mrs Christine Gazga
Date of birth	18th December 1981
Nationality	Greek
Profession	Electrical Engineer
Key Qualifications	Ability to work under extreme pressure, heavy work load and deadlines Strong personal communication skills Very good knowledge of local and international standards and codes (ELOT, IEC, British, NEC, IESNA, CIBSE) Attention to details and problem solving skills Direct design study procedure in all design phases
Professional Experience	
Dates	06/2013 – Today
Occupation or position held	Electrical Engineer
Main activities and responsibilities	Member of the electromechanical study group, for various type of projects, including private and public buildings and infrastructures in Greece and abroad.
Name and address of employer	Gregorios Drettas & Co LP (GKA Engineers), Athens, Greece
Type of business or sector	Electromechanical design and construction
Dates	2008-2013
Occupation or position held	Electrical Engineer
Main activities and responsibilities	Member of the electromechanical study group, for various type of projects, including private and public buildings and infrastructures in Greece and abroad
Name and address of employer	Kion Consultants S.A.
Type of business or sector	Electromechanical design and construction
Dates	2007-2008
Occupation or position held	Electrical Engineer
Main activities and responsibilities	Member of the electromechanical study group, for gas station projects.
Name and address of employer	Moustakounis
Type of business or sector	Electromechanical design and construction
Dates	2005-2007
Occupation or position held	Electrical Engineer
Main activities and responsibilities	Member of the electromechanical study group.
Name and address of employer	Hlektrofotokinisi A.E.
Type of business or sector	Electromechanical construction
Education and training	
Dates	2013-Today
Title of qualification awarded	Master in Lighting Design and Multimedia MA

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Principal subjects/occupational skills	Lighting designing sets with the application of modern digital technology				
Name and type of organisation providing education and training	Hellenic Open University				
Dates	2000-2005				
Title of qualification awarded	Diploma in Electrical Engineer				
Principal subjects/occupational skills	Power system analysis and Control, Power Generation, Electric Machinery., Voltage Stability, Electromechanical Studies.				
Name and type of organisation providing education and training	Technological Education Institute of Western Macedonia				
Languages					
Mother tongue(s)	Greek				
Other language(s)					
Self-assessment					
English					
	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
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