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**Department of Electrical and Computer Engineering**

**Title: «Integrating Green House Emission Costs in Life-Cycle Loss Evaluations»**

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Room KENTP. ПTEP. - E113, Old Campus  
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**Abstract:**

In the context of the continuous growth on power system investment and energy costs, the stakeholders are willing to strike a sense of balance between cost of purchase and cost of energy losses. Electric utilities are gradually interested in installing highly efficient equipment in their networks, so as to reduce the energy consumption. Hence, it is essential to rely on enhanced methodologies that could in detail evaluate the losses of electrical equipment/systems and their cost, in our case in transmission lines. European Commission strategies are encouraging communities towards more efficient and more sustainable energy solutions that will result in reduction of greenhouse gases (GHG) emissions in future years. Nowadays the reduction of greenhouse gas emissions is becoming a topical issue due to the growing concern for global warming and climate change. The actions that can immediately reduce GHG emissions and their cost, for an electric utility, are the use of energy efficient equipment and renewable energy sources. This presentation aims to provide an enhancement of a previous model for the evaluation of the Total Cost of Ownership (T.O.C.) that supports transmission lines by introducing environmental factors, i.e. GHG emissions and their cost. Efficient transmission lines need to be evaluated for losses by providing vital enhancements beyond the state of the art.

**Biography:**

**Antonis Lazari** was born in Nicosia, Cyprus in 1988. He studied M.Eng. (Hons) in Electrical and Electronic Engineering and graduated in 2010 from the University of Bristol, UK. Since January 2011 he has been with the Department of Electrical and Computer Engineering, at the University of Cyprus as a PhD student in the field of Electrical Power Engineering. His research interests include Losses Evaluation in the light of increasing penetration of renewable energy generation.