


Event:
Date:
Place:

ENERGY in BUILDINGS 2016
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Athens, Hellas



#	<p>Michaelis Karagiorgas (Mechanical Engineer NTUA, MSc, Ph.D PARIS 7)</p>	
Title:	Energy Manager in A&B Enterprise, Athens, Greece	
Presentation title:	TAB techniques within an EPC give high energy savings verified by IPMVP tool in the Greek Energy Regulator Building	
<p>The Regulatory Authority for Energy (“RAE”) building is the first in Greece to have an ISO 50001 standard installed, based on verification procedure for the energy savings, dated Feb. 2013. The building is located in Piraeus Avenue in the center of Athens. It is a seven floor office building with a total area of 9.283 m². It is connected with the local natural gas network and had an increased electricity and natural gas consumption until 2012. Since then, a number of energy saving interventions took place which resulted in a significant decrease in the building’s energy use and consumption. It should be mentioned that the interventions included low cost tunings and managerial measures based on TAB, RD and MTB techniques. To measure the building performance, the PMP guide was applied, while the role of the existing BMS was proved significant, since we operated continuous monitoring to optimize the above tunings. In order to verify the savings from the above techniques, the IPMVP methodology was adopted in the building within an ISO 50001 system, following the established baselines with data taken from the utility bills after implementing a consistent M&V plan. The cumulative total energy savings for the year period from 24/07/2012 to 29/8/2013 was 300.655,30 kWh_{el+th} or energy consumption savings up to 25,76%, compared to the normalized baseline data.</p>		
CV:	<p>Michaelis KARAGIORGAS is a PhD Energy Engineer expert in solar cooling technology. He is long involved in the field of energy audit sector as well as in the bioclimatic low energy building design. As former R&D Manager in Interkima SA HVAC equipment manufacturer, six HVAC products are in the market design by him.</p> <p>As Energy Manager in A&B-energy enterprise, he obtained, in year 2009, the 1st European Award 2009 of the Ecobuilding Club for the optimal design for the energy upgrade of the Marine Mercantile Ministry Headquarters Building, Acti Miaouli, Piraeus, Greece.</p> <p>He has been EU level Co-ordinator of six EU wide research projects on energy topics. Also National/Greek level Co-ordinator in ten research energy projects. Participation as partner in 63 EU and National research energy projects.</p> <p>Deep knowledge of Heat Transfer techniques and technologies, Fluid Mechanics, Geothermal Energy and Heat Pumps. Recent work in the fields of geothermal heat pumps, solar assisted heat pumps, solar cooling, industrial process heating with solar energy and basic research in climatization with Renewable Energy Sources.</p> <p>Today he is Professor in ASPETE Mechanical Engineering Educator Department.</p>	