

Event:

ENERGY in BUILDINGS - CRETE 2025

Date:

Saturday March 08, 2025

Place:

Heraklion, Crete



#	Georgios Effraimidis Mechanical Engineer MSc	
Title:	Atlantis Engineering CCO, HMS Chairman	
email:	ge@atlantis-engineering.com	•
Presentation title:	The AI-Powered Maintenance Revolution: What's Working, What's Coming, What You Need to Know	
Maintenance is one of the three major pillars for Sustainable Growth, besides recycling and renewable energy. Equipment availability, energy consumption savings, working environment, safety and raw materials preservation are the main goals of maintenance, in order to support the company's competitiveness. In industry 4.0 era, Big Data analysis, Machine Learning techniques and IoT technologies provide new opportunities to upgrade the role of maintenance and make it more efficient. Tools as vibration analysis, ultrasonic signals, oil analysis can predict equipment breakdowns more accurate than ever. Moreover, plenty of data can be acquired from equipment PLCs, environmental sensors and production processes. The analysis of these data under specific algorithms and ML techniques can produce unique knowledge to upgrade equipment efficiency and products quality. In the transition from preventive to predictive maintenance, the role of technicians is very crucial and needs new skills. Modern enterprises look for technicians that not only work with their hands, but mainly with their brains. Technicians that not only repair breakdowns, but mainly they prevent the occurrence of any breakdown. The vision is Human and Technology paving the way for sustainable maintenance.		
Short CV GREEK:		
Πρόεδρος της Hellenic Maintenance Society, CCO της Atlantis Engineering. 30 χρόνια εμπειρία στην εφαρμογή ολοκληρωμένων συστημάτων συντήρησης στην Ευρώπη και στη Μέση Ανατολή. Total Productive Maintenance (TPM) Senior consultant.		
Short CV EN:		
Hellenic Maintenance Society Chairman, Atlantis Engineering CCO (Chief Commercial Officer). 30 years experience in integrated maintenance systems in Europe and Middle East. Total Productive Maintenance (TPM) Senior consultant.		

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CV:

Mechanical Engineer MSc, CCO of ATLANTIS Engineering SA, Chairman of Hellenic Maintenance Society (HMS)

Since 1996 he has been working as a maintenance engineer expert and consultant in projects for the local Greek market and for international companies in Europe (Spain, Netherlands, Bulgaria, Romania, and Cyprus) and MENA region (Bahrein, Oman, Qatar, and UAE).

His main areas of specialization lie in the implementation of Total Productive Maintenance, as long as optimizing the maintenance processes of industrial facilities and ensuring their efficiency and reliability. Furthermore, his vast professional experience includes the development and application of Computerized Maintenance Management Systems (CMMS) and Predictive Maintenance tools.

As a founding member of the Hellenic Maintenance Society, he has been actively promoting the principles of maintenance and highlighting its significant role in Greece. Through this organization, he has contributed to creating awareness and driving advancements in maintenance practices in the country.