

Event:

Energy in Buildings Athens Conference 2026

Date:

Saturday October 24, 2026

Place:

Divani Caravel Hotel Athens, Greece



#	Efstratios Santziliotis Mechanical Engineer M.Sc.,	
Title:	Head Electrical & Mechanical Engineering of Athens International Airport Design and Construction Department of Technical Services Corporate Unit	
email:	Santziliotis@aia.gr	•
Presentation title:	Athens International Airport Route 2025 HVAC Electrification Project	
As part of its Route 2025 initiative towards Net-Zero carbon emissions, Athens International Airport (AIA) implemented a major electrification of its HVAC infrastructure through the replacement of natural-gas-fired boilers and burners, as well as part of electrically driven chillers, with high-temperature heat pump systems. The project aimed to reduce natural gas consumption and associated carbon emissions, while improving overall heating and cooling efficiency through heat recovery and simultaneous heating and cooling operation. It also addressed the replacement of aging HVAC infrastructure with modern, high-efficiency equipment. The project included the installation of fifty-four (54) air-cooled and water-cooled heat pumps across ten (10) AIA buildings, including the Main and Satellite Terminal buildings, with a total installed thermal capacity of 14.5 MW. With a total project budget of €8 million and a planned construction period of twelve (12) months, the project represented a significant step in the electrification and decarbonization of AIA's HVAC infrastructure, along with the 35MW PVP/32MWh BESS and e-mobility projects		
Short CV (EN):		
Stratis Santziliotis is an experienced Mechanical Engineer with many years' experience in the field of aviation infrastructure and civil engineering projects. He holds postgraduate degrees from the University of Patras and the National Technical University of Athens in the fields of mechanical engineering and automation systems. At Athens International Airport, where he works for 18 years, he leads teams of engineers in the design, supervision and construction of electromechanical projects. Furthermore, his professional career includes significant experience as a technical consultant and project engineer at companies such as SHELL HELLAS and ALPHA MELETITIKI. His core professional skills focus on the development, construction and optimization of airports, as well as the management of innovative technical projects.		
Short CV (GR):		
	Ο Στρατής Σαντζιλιώτης είναι έμπειρος Μηχανολόγος Μηχανικός με πολυετή πορεία στον τομέα των αεροπορικών υποδομών και των τεχνικών έργων.	

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	Διαθέτει μεταπτυχιακούς τίτλους από το Πανεπιστήμιο Πατρών και το Εθνικό Μετσόβιο Πολυτεχνείο στους τομείς της μηχανολογίας και των συστημάτων αυτοματισμού. Στο Διεθνές Αεροδρόμιο Αθηνών, όπου εργάζεται για 18 χρόνια, ηγείται ομάδων μηχανικών για τον σχεδιασμό, την επίβλεψη και την κατασκευή ηλεκτρομηχανολογικών έργων. Επιπλέον, η επαγγελματική του πορεία περιλαμβάνει σημαντική θητεία ως τεχνικός σύμβουλος και μηχανικός έργων σε εταιρείες όπως η SHELL HELLAS και η ΑΛΦΑ ΜΕΛΕΤΗΤΙΚΗ. Οι βασικές του επαγγελματικές δεξιότητες επικεντρώνονται στην ανάπτυξη, κατασκευή και βελτιστοποίηση αεροδρομίων, καθώς και στη διαχείριση καινοτόμων τεχνικών σχεδίων.
CV:	
Stratis Santziliotis Head, Mechanical Engineer Athens International Airport	
1. Professional Experience	
1.1 Athens International Airport	
Head, Electrical & Mechanical Engineering May 2015 – Present	
- Leading a team of ten (10) electrical/mechanical engineers for conducting, reviewing and coordinating design studies of electrical and mechanical projects and for the efficient management of their construction phase, required for the expansion, upgrade, and optimization of Athens International Airport's (AIA) infrastructures according to the development and maintenance plan. - Accountable for setting the electrical and mechanical design principles and guidelines, in line with any operational standards and restrictions, aiming to deliver fully functional, technologically advanced and cost efficient solutions, systems and projects. Ensure that all these design enhancements are applied in the most creative and innovative method.	
Senior Mechanical Engineer May 2008 – May 2015	
- Preparation of design packages (Outline and Detailed Design Packages) for new projects or design upgrades/modifications to existing facilities using innovative and contemporary concepts. - Responsible for drawings using appropriate software, specifications, Bill of Quantities, budget estimations, design calculations and tender documents in coordination with the Construction Projects Control Unit and in accordance with ADA requirements, ICAO, Hellenic and European Codes and Regulations, NFPA and Airport Standards. - Supervision of construction works and responsibility for Testing and Commissioning procedures.	
1.2 SHELL HELLAS S.A.	
Supervising Engineer / Technical Consultant September 2004 – May 2008	
- Coordinating design and construction teams for the implementation of various technical projects in SHELL HELLAS S.A. installations in Greece. - Preparing preliminary and detail design studies for the optimization of existing SHELL HELLAS S.A. depot installations.	

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1.3 Alpha Meletitiki, Consultant Engineers

Junior Engineer

September 2003 – September 2005 |

- Part of a member of a team of 10 engineers for the preparation of preliminary and detail design engineering projects (civil and industrial).

2. Education

University of Patras

Master's degree, Mechanical Engineering · September 1992 – July 1999

National Technical University of Athens

Master's degree, Automation Systems · September 1997 – September 2000