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## ENERGY in BUILDINGS - EPIRUS 2025

Saturday May 31, 2025  
Hotel Du Lac, Ioannina



#	<b>Dr. Koronaki Irene</b>	
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Presentation title:	<b>Carbon Footprint Reduction Initiatives in Universities</b>	
<p>Universities today face increasing pressure to align their operations with broader climate goals. At the National Technical University of Athens (NTUA), we developed a hands-on academic initiative that engages students directly in efforts to reduce campus-related carbon emissions. The goal was not only to raise awareness but to offer a clear understanding of how carbon footprints are measured, analysed, and ultimately reduced within complex institutional settings.</p> <p>Participants received training in tools such as Life Cycle Assessment (LCA) and Life Cycle Costing (LCC), alongside international standards like ISO 14040–14064 and the Greenhouse Gas Protocol. What made the program stand out was its practical dimension: students worked with live data from NTUA's energy systems—including smart meters and monitored HVAC equipment—to identify areas of improvement and suggest targeted interventions.</p> <p>In parallel, on-site visits across the university's campuses exposed students to current sustainability measures already in place, from solar installations to retrofitted buildings. These experiences were tied to NTUA's long-term Sustainability Action Plan, which aims to decarbonize infrastructure while promoting energy efficiency and low-impact mobility.</p> <p>More than just a technical exercise, the initiative emphasized teamwork, critical thinking, and real-world problem solving. It offered a glimpse into how universities can function not only as educational institutions, but as active agents in the climate transition. The outcomes reflect a growing need for integrative, campus-based approaches that prepare young professionals to engage meaningfully with sustainability challenges—locally and globally.</p>		
Short CV GREEK:		
<p>Η Ειρήνη Κορωνάκη είναι Καθηγήτρια στη Σχολή Μηχανολόγων Μηχανικών του ΕΜΠ και Διευθύντρια του Εργαστηρίου Εφαρμοσμένης Θερμοδυναμικής. Το ερευνητικό της έργο επικεντρώνεται στην ενεργειακή απόδοση κτηρίων και βιομηχανικών εφαρμογών, την ένταξη ΑΠΕ σε κτήρια και τις τεχνολογίες ψύξης με χαμηλό περιβαλλοντικό αποτύπωμα. Έχει πολυετή εμπειρία σε ευρωπαϊκά και εθνικά ερευνητικά έργα στον τομέα της βιώσιμης ενέργειας και του κτηριακού περιβάλλοντος.</p>		