


Event:  
Date:  
Place:

## Energy in Buildings Athens Conference 2024

Saturday November 23, 2023  
Grand Hyatt Athens, Hellas



#	<b>Maria Gavrouzou</b> Physicist, PhD	
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Presentation title:	<b>Energy Interventions that Contribute to the Climate-Proofing of Buildings on Multiple Scales</b>	
<p>This presentation will cover climate-proofing solutions for the built environment regarding energy supply. More particularly, this presentation will center on safeguarding the built environment from climate and natural hazards while maintaining its self-sufficiency in the face of disruptive events. The built environment will be assessed on multiple scales, namely building, urban, and territorial, while the hazards of interest will include heatwaves, heavy precipitation, droughts, earthquakes, wildfires, and storms. First, a comprehensive overview of the solutions/interventions that have already been applied will be presented. The maturity of these solutions (based on TRL), their efficacy, affordability and potential restrictions in their implementation and their contribution to climate mitigation will be assessed. Last, the future climate change impacts and related risks per European region will be discussed in the direction of seeking and selecting the most appropriate interventions.</p>		
Short CV:		
<p>Dr. Maria Gavrouzou is an Associate Researcher at NCSR Demokritos. She holds a Doctorate (PhD) in Atmospheric Physics from the University of Ioannina, Physics Department (2023), an MSc degree in Atmospheric Sciences and Environment (2019) and a B.Sc. in Physics (2017). Currently, she is a member of the Environmental Research Laboratory (EREL) and is involved in the MULTICLIMACT project.</p>		
CV:		
<p>Dr. Maria Gavrouzou is an assistant researcher at NCSR Demokritos and a member of the Environmental Research Laboratory (EREL) of INRASTES. She holds a Doctorate (PhD) in Atmospheric Physics from the University of Ioannina, Physics Department (2023), an MSc degree in Atmospheric Sciences and Environment (2019) and a B.Sc. in Physics (2017). She ranked first in the graduating class of the University of Ioannina, Department of Physics, February 2017. She won the "Early Career Scientists' Travel Support" award at the European Geoscience Assembly (EGU) conference (2020) and received the Hellenic Foundation for Research and Innovation (H.F.R.I.) for PhD candidates (2021). Her research interests focus on atmospheric modelling, climate data analysis, climate change resilience and adaptation. Currently, she is involved in the Horizon Europe MULTICLIMACT project, which aims to develop a mainstream framework and a tool for supporting public stakeholders and citizens to assess the resilience of the built environment and its people at multiple scales (buildings, urban areas, territories) against locally relevant natural and climatic hazards and supply-chains. Dr. Gavrouzou currently works on energy retrofit interventions that will contribute to the climate-proofing of the built environment at multiple scales.</p>		