

Event:

ENERGY in BUILDINGS – Northern Hellas 2025


Date:

Saturday February 22, 2025

Place:

Thessaloniki, Macedonia - Hellas



#	Anna Linardou Architect Engineer AUTH	
Title:	Junior architect at Tsolakis Architects & Partners, Athens, Greece	
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Presentation title:	Water Routes in Velvendos: Traditional Hydro-Powered Installations Along Streams.	
<p>The question of the use of renewable energy sources, such as that of water, is not a modern one, but dates back to ancient times. The emergence of the first water-powered workshops marked the beginning of the use of water as a driving force for the productive process through machine buildings, which were integrated into societies and helped to make daily tasks easier and faster. Today, in the age of industries, technological progress but also of climate crisis, the question of the importance of these workshops, and the need for their preservation as elements of cultural heritage arises. The present research concerns traditional water-powered workshops and focuses on the case of the watermills in Velvento Kozani, which formed an important core of water-power in the 19th and 20th century, as more than 40 water-powered workshops were operating there. Initially, the watermills and the other workshops were examined in both their social and architectural dimensions. The structural parts, typologies, and operating mechanisms of each workshop were analysed in relation to the social conditions of the time. In particular, reference was made to the environmental and social characteristics that led to the flourishing of the hydrodynamics in the region of Velvento. At the same time, the preserved watermills were studied and the possibilities of their exploitation and their enhancement in the present day were examined. As part of the research, the locations of all the original workshops were recorded, and the current condition of the preserved ones was investigated and documented. Other issues explored were the potential for utilisation of the running water as an alternative source of energy after rehabilitation and the use of the sun for electricity, heating and cooling of the installations in order to emphasise the sustainability dimension and achieve energy autonomy. Finally, the creation of an eco-museum in the area of Velvento was proposed, and the funding programmes offered by the European Union to support this project were explored.</p>		
Short CV GREEK:		
Ονοματεπώνυμο: Άννα Λινάρδου Ιδιότητα: Αρχιτέκτων Μηχανικός Ειδικά ενδιαφέροντα: Βιώσιμη αρχιτεκτονική, αποκατάσταση Ξένες γλώσσες: Αγγλικά (C2), Γαλλικά (B2) Σχεδιαστικά προγράμματα: Autocad, Rhinoceros, Archicad, Sketchup, Enscape, V-ray, Photoshop, Grasshoper.		
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Full Name: Anna Linardou

Position: Architect

Special Interests: Sustainable Architecture, Restoration

Languages: English (C2), French (B2)

Design Software: AutoCAD, Rhinoceros, Archicad, SketchUp, Enscape, V-Ray, Photoshop, Grasshopper.

CV:

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Languages: English (C2), French (B2)

Software: AutoCAD, Rhinoceros, Archicad, SketchUp, Enscape, V-Ray, Photoshop, Grasshopper, InDesign, Ms Office

I am originally from Rhodes and I have recently graduated from the Architecture School of the Aristotle University of Thessaloniki (A.U.Th.). Currently, I am working at the architectural firm Tsolakis Architects & Partners in Athens. My journey with architecture began at an early age, growing up in a family of engineers. During my school years, I had the opportunity to attend the "Summer Architecture Programme" at Balliol College of the University of Oxford. This experience provided me with valuable insights into addressing architectural challenges and emphasized the importance of sustainability in design.

While studying in Thessaloniki, I participated in the Erasmus program, spending six months at the Ecole d'architecture in Lyon, France, an experience that broadened my perspective and exposed me to new ideas and approaches from different cultural contexts. Additionally, I've worked as an intern in the architecture firm "Haraxis Dodecanese" and contributed to the "Rhodes Centennial Project," a volunteer initiative organized by the partnership of the University of Copenhagen and the Archaeological Service of Greece.

Alongside architecture, I am deeply passionate about music. I hold an advanced degree in piano, along with diplomas in music theory, morphology, history, and composition. This musical background enhances my creative and artistic approach to architecture, offering a unique and holistic perspective to my designs.