



The Project: "Sustainable and almost zero-emission communities and the role of public buildings" | nZECom

The nZECOM project in Nestorio Municipality | Difficulties and opportunities for small mountain municipalities

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Description of the building - Nestorio town hall

The two-story building that houses the Town Hall was built in two phases

Initially the 336.42 m² on each floor were built before 1955

The remaining 195.22 m² on each floor were built later as an addition to the existing one in 1971

The total area of the building is 531.64 m²









North view - Entrance of the town hall



South East View



Interreg - IPA CBC Creece - Albania nZECom

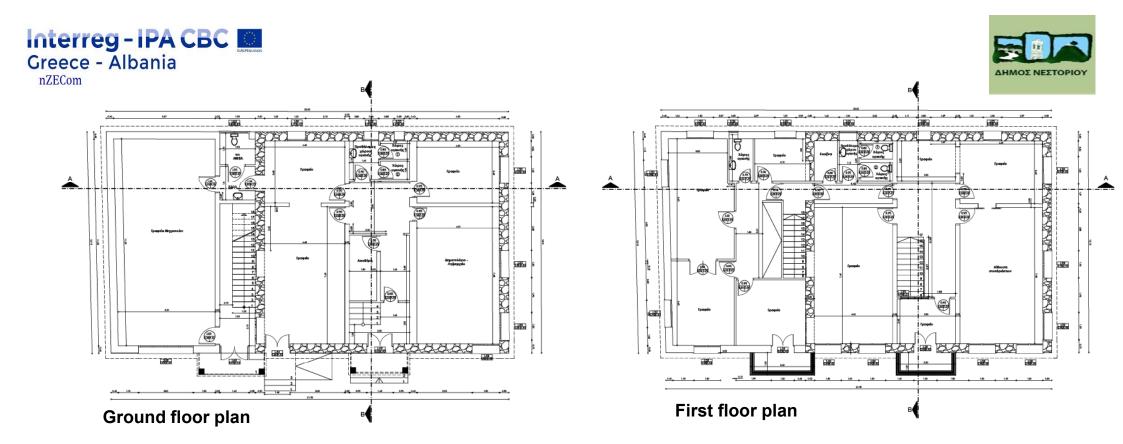






North View West View











Description of the place - Nestorio Kastoria





The geographic location of the building – Altitude 925 m

The geographic location of Nestorio – North Greece





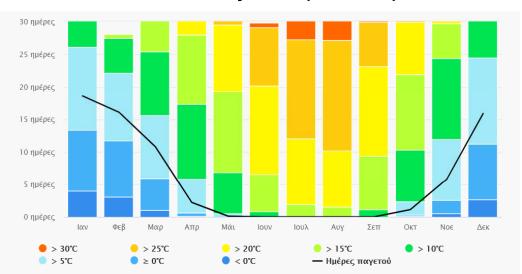


Climate Data - Nestorio Kastoria

Average daily maximum and average daily minimum temperature

40 °C 100 mm 30 °C 75 mm 20 °C 10 °C 50 mm 0 °C 25 mm -10 °C -20 °C 0 mm Μαρ Σεπ Ιαν Φεβ Απρ Δεκ **Υετός** Μέση ημερήσια μέγιστη - · Ζεστές ημέρες — Ταχύτητα ανέμου Μέση ημερήσια ελάχιστη Ψυχρές νύχτες

Number of Days with specific temperatures



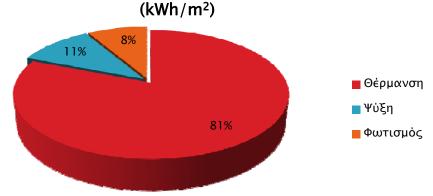






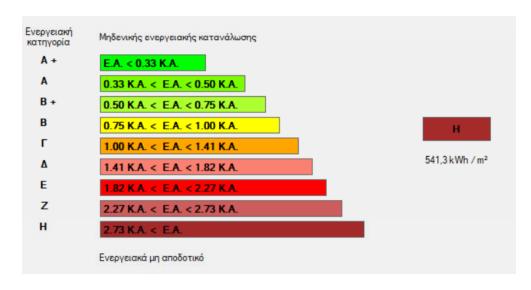
Energy Consumption – Energy Building Performance

Πρωτογενής Ενέργεια ανά τελική χρήση



Primary energy consumption per usage

Energy consumption for heating
Energy consumption for cooling
Energy consumption for lighting
Total Primary energy consumption
- 438,4 kWh/m²
- 57,2 kWh/m²
- 45,7 kWh/m²
- 541,3 kWh/m²



Energy Building Performance

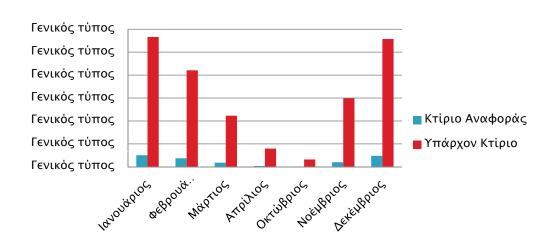




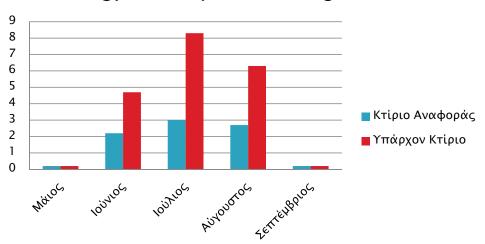


Energy Consumption – Energy Building Performance

Energy consumption - Heating (kWh/m²)



Energy consumption –Cooling (kWh/m²)



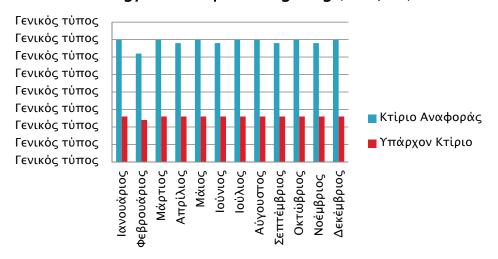






Energy Consumption – Energy Building Performance

Energy Consumption -Lighting (kWh/m²)









Description of works to reduce Energy Consumption

Thermal insulation of the building envelope



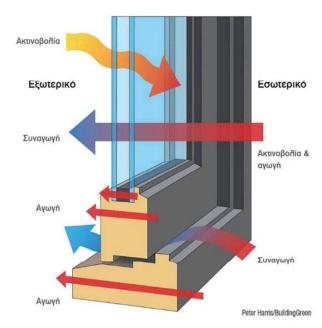








Description of works to reduce Energy Consumption



Replacement of the old wooden doors and windows with new certified energy efficient glasses

