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Description of works to reduce Energy Consumption

Installation of a new central heating system



Installation of heating pump



Replacement of the old heating radiators with new fan coils



Description of works to reduce Energy Consumption



Replacement of the old lighting with new LED technology lighting



Installation of energy management system









Description of works





Installation for charging electric vehicles (EV)

- Increasing the power of the electricity network from singlephase to three-phase
- Improve the electrical grounding of the electricity network of the building

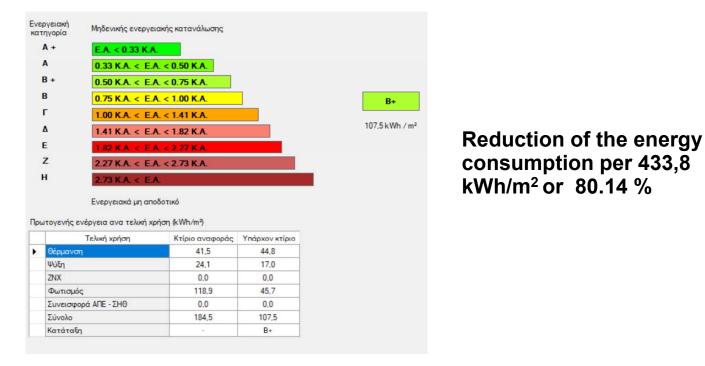








Energy consumption after the implementation of the works







Budget and timetable of the project

The budget of the project is 280.000 €

The contract was signed on August (17.08) and the contractor has the obligation to deliver the project in 5 months (17.01) according to the following time table

The works have started on 29 of October

α/α	Φάσεις Υλοποίησης Προμήθειας	Μήνες					Τουλάχιστον 1 έτος
		1	2	3	4	5	1
1	Φάση 1 : Υπογραφή σύμβασης						
2	Φάση 2 : Παράδοση και εγκατάσταση εξοπλισμού						
3	Φάση 3 : Θέση σε λειτουργία συστήματος						
4	Φάση 4 : Εκπαίδευση						
5	Φάση 5 : Δοκιμαστική λειτουργία συστήματος – Παράδοση συστήματος						
6	Φάση 6 : Εγγύηση καλής λειτουργίας						



Co-funded by the European Union and National Funds of Greece and Albania, via the Interreg IPA CBC Programme "Greece – Albania 2014 – 2020"



Timetable









































Difficulties and problems

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- The prices of the materials have increased dramatically the last couple of years. As result at the first tender, there were no bid for contract from a contractor and the tender procedures have to repeat and also the study to change in order to reduce the cost.
- The tender procedures were for an international commission tender because the budget was above the limit of a national tender.
- > The weather conditions do not allow the whole year the works to be done
- ≻The study has changed







Difficulties for small mountain Municipalities

Access is difficult due to the distance from urban centers Suppliers and Contractors prefer projects that are closer to them.

Projects have small budget Contractors prefer big budget projects

The weather conditions are not good the whole year This limits the amount of time during which the work has be done,

The settlements and the villages are scattered and the distances are long even within the Municipality





Opportunities for small mountain Municipalities

The projects are on a smaller scale
Funding can be found through European and national resources

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- Buildings are renovated and upgraded and energy costs and management costs are reduced
- Municipalities, universities and enterprises come into contact and exchange good practices
- Linking universities with small municipalities and help from universities in issues related to the preparation of studies.







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

THANK YOU FOR YOUR ATTENTION !

