

ENERGY RENOVATION PROJECT IN GREECE

The regional unit building located in Sparta is located at 2.5 km. of the National Road Sparta-Gythion. Sparta is a town in the Peloponnese and the capital of the region of Laconia, in Greece. It includes office space, conference rooms, hallways, etc. It is housed in a rectangular floor building. It consists of basement, ground floor and first floor. The ground floor and the 1st floor are 4 meters high. The basement area is approximately 1874.92 m², the ground floor area is 3828.66 m² and the floor area 3250.87 m². The building permit was issued in 2005 (building permit for the construction of a building of administrative and cultural functions of the prefecture of Laconia) and its number is 190/2005.

The building operates on average 12 months a year, 5 days a week, 10 hours a day.



“This is where
the energy
renovation
took place in
Greece”



REGIONAL UNIT OF LAKONIA,
GREECE

MANAGED BY REGION OF
PELOPONNESE,
GREENBUILDING LEAD
BENEFICIARY

ENI
CBCMED
Cooperating across borders
in the Mediterranean

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REGIONE AUTONOMA DE SARDIGNA
REGIONE AUTONOMA DELLA SARDEGNA

GreenBuilding



ACTION LIST

- *Power generation from Photovoltaics*

The Region of Peloponnese, GreenBuilding Lead Beneficiary, completed the activities and works for the renovation of the regional building.

The installation of the photovoltaics in the rooftop of the building of the Regional Unit of Lakonia, with total Installed Power 99.64 kW is estimated to:

- Produce more than 150.000 kWh /year
- Avoid 130 tons of CO₂ emissions!



THE BUILDING IS LESS ENERGY-CONSUMING AND OF COURSE GREENER!

- *Reduction of the lighting load*

The region worked to replace the lighting units inside the building with energy-saving LEDs. In total, 1408 lamps were replaced with an energy saving of at least 50%! The energy management system will allow:

- The rational management and energy saving
- The comfort for the users of the building (thermal comfort, work comfort, etc.)
- The management of lights and alliances.
- The monitoring and automatic control of electromechanical installations.

ENERGY MONITORING

