



ENERGY SAVINGS AND RENEWABLE INVEST POTENTIALS IN PUBLIC BUILDINGS

MUNICIPALITY LAKATAMIA

The purpose of the pilot is the reduction of the energy consumption and the CO₂ emissions in two public buildings owned by the Municipality of Lakatamia, with the installation of a Building Energy Management System (BEMS). The BEMS enables identifying the areas, systems and processes in the two buildings that consume the larger amounts of energy where actions for energy reduction through equipment optimization and energy efficient equipment purchasing has been taken. The BEMS can also reduce energy consumption through controls and automations. The constant monitoring by the energy team of the Municipality is providing the opportunity to further reduce energy consumption and continuous process optimization. A training session aims increasing the awareness and help tackle problems in energy consumption that come through user's habits. Behavioral changes of the users can reduce the energy consumption of a facility by at least 5% and the target is through the awareness raising and training to achieve these results.



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Macro objective:

- Increase energy efficiency
- Reduce greenhouse gas emissions
- More energy efficient processes
- Initiation of energy saving educational campaigns
- New skills acquired by personnel of the energy team doing the monitoring
- Behavioural changes of building users

Specific objectives:

- Raise awareness on the various systems energy consumption
- Raise awareness of the various processes energy consumption
- Monitoring of energy consumption
- Training of building users
- Targeted energy upgrades on equipment and the building envelope

RES potential to be exploited:

- Upgrading of the 3kW PV to a 5kW PV for an additional production of 3,200 kWh of electricity; production of 4,800 kWh of electric energy from a 3kW PV system on the Cytizens Service Bureau

Polis Polydorides;
+35722364055/97;
polys.polydorides@lakatamia.org.cy;
athina.kyriacou@lakatamia.org.cy