

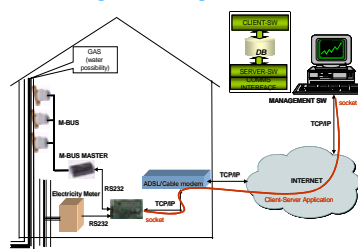
ENERinTOWN Case Study

Energy use in 5TH HIGH SCHOOL/MAROOUSSI

Client	MAROOUSSI MUNICIPALITY
Overall objective	The overall objective was to minimize the consumption of electricity and natural gas.
Object data	School Building of approx 700 m ² with electricity, gas and internet connection



General diagram: Building without LAN



Initial Situation	<p>The annual costs for electricity were approx. €1350 and for natural gas the annual cost was approx. €1270</p> <ul style="list-style-type: none"> • Estimated saving potential for electricity approx. 5% • Estimated saving potential for natural gas approx. 7%
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Realisation model	<p>Assignment of a municipal energy manager.</p> <p>Activities:</p> <ul style="list-style-type: none"> • On site inspections and buildings database completion • Installation of real time monitoring system and data collection • Data collection and analysis over certain time period • Proposal of energy saving measures from LDK Consultants in cooperation with municipal energy managers
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Measures implemented	<ul style="list-style-type: none"> • Heating efficiency measures <ul style="list-style-type: none"> • Optimization of boiler starting hours (early start/ early stop) • Lowering of temperature set point by 1-2 degrees as deemed • Electricity efficiency measures <ul style="list-style-type: none"> • Seminars at schools for behavioral change regarding lights use • Deactivation of lamps in fixtures situated in places with excess luminance
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Results

- Savings in heating energy consumption by the order of 8.4%
- Savings in electricity energy consumption by the order of 5.5%
- These account for about 75 Euro net savings for electricity costs and 110 Euro for natural gas costs

Benefits for the clients

- Savings over the expenditures for energy use
- Environmental benefits and reduction of emissions
- Behavioral change of involved parties over energy saving context
- Savings on natural resources
- Rise of energy consciousness
- Improved public image
- Identification of possible EE interventions

Assistance provided

- Utilization of web based Municipal management Tool
- Series of meetings for consultancy over energy saving matters

Others

Introduction to low-level personnel of the energy saving possibilities through behavioral only changes

Contact

LDK Consultants
Off 21, Thivaidos St.
GR-145 64, Kifissia, Athens
tel: +30 210 8196700
fax: +30 210 8196709