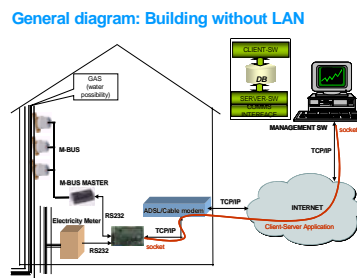


ENERinTOWN Case Study

Energy use in 12TH ELEMENTARY SCHOOL/EGALEO

Client	EGALEO 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



Initial Situation

The annual costs for electricity were approx. € 1370 and for natural gas the annual cost was approx. €1215

- Estimated saving potential for electricity approx. 5%
- Estimated saving potential for natural gas approx. 7%

Realisation model

Assignment of a municipal energy manager.

Activities:

- 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

Measures implemented

- **Heating efficiency measures**
 - Optimization of boiler starting hours (early start/ early stop)
 - Lowering of temperature set point by 1-2 degrees as deemed
- **Electricity efficiency measures**
 - Seminars at schools for behavioral change regarding lights use
 - Deactivation of lamps in fixtures situated in places with excess luminance

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 100 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