

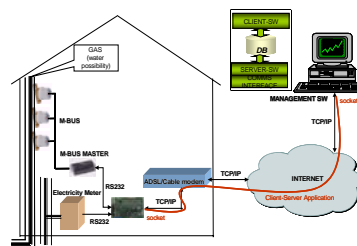
ENERinTOWN Case Study

Energy use in SWIMMING POOL/MAROOUSSI

Client	MAROOUSSI MUNICIPALITY
Overall objective	The overall objective was to minimize the consumption of electricity and natural gas.
Object data	Pool (50x10x3m) plus Building with locker rooms and limited office facilities



General diagram: Building without LAN



Initial Situation	<p>The annual costs for electricity were approx. € 5900 and for natural gas the annual cost was approx. € 105425</p> <ul style="list-style-type: none"> • Estimated saving potential for electricity approx. 6% • Estimated saving potential for natural gas approx 8%
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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 in pool boiler only • Electricity efficiency measures <ul style="list-style-type: none"> • Seminars to operators for behavioral change regarding pool lights time control
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Results

- Savings in heating energy consumption by the order of 8.6%
- Savings in electricity energy consumption by the order of 6.3%
- These account for about 370 Euro net savings for electricity costs and 9070 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

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