

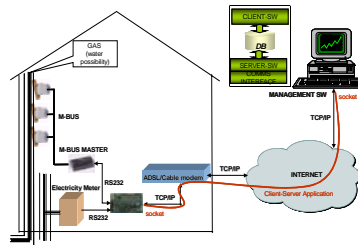
## ENERinTOWN Case Study

### Energy use in 5<sup>TH</sup> GYMNASIUM/MAROOUSSI

<b>Client</b>	MAROOUSSI MUNICIPALITY
<b>Overall objective</b>	The overall objective was to minimize the consumption of electricity and natural gas.
<b>Object data</b>	School Building of approx. 800 m <sup>2</sup> with electricity, gas and internet connection



General diagram: Building without LAN



<b>Initial Situation</b>	<p>The annual costs for electricity were approx. €1500 and for natural gas the annual cost was approx. €2500</p> <ul style="list-style-type: none"> <li>• Estimated saving potential for electricity was approx. 5%</li> <li>• Estimated saving potential for natural gas was approx. 7%</li> </ul>
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<b>Realisation model</b>	<p>Assignment of a municipal energy manager. Activities:</p> <ul style="list-style-type: none"> <li>• On site inspections and buildings database completion</li> <li>• Installation of real time monitoring system and data collection</li> <li>• Data collection and analysis over certain time period</li> <li>• Proposal of energy saving measures from LDK Consultants in cooperation with municipal energy manager</li> </ul>
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<b>Measures implemented</b>	<ul style="list-style-type: none"> <li>• <b>Heating efficiency measures</b> <ul style="list-style-type: none"> <li>• Optimization of boiler starting hours (early start/ early stop)</li> <li>• Lowering of temperature set point by 1-2 degrees as deemed necessary</li> </ul> </li> <li>• <b>Electricity efficiency measures</b> <ul style="list-style-type: none"> <li>• Seminars at schools for behavioral change regarding lights use</li> <li>• Deactivation of lamps in fixtures situated in places with excess luminance</li> </ul> </li> </ul>
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## Results

- Savings in heating energy consumption by the order of 8.3%
- Savings in electricity energy consumption by the order of 5.5 %
- These account for about 87 Euro net savings for electricity costs and 205 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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