

The 50/50 implementation in two buildings of Montmeló municipality

SUMMARY OF THE PROJECT



During the 2011, the 50/50 has been implemented in a sports center facility and a community center, as a pilot test of the implementation of the 50/50 project in non-educative public buildings. The municipality has already had an experience of the project from the Pau Casals school which has participated very actively in the project.

Two levels of monitoring of the project has been set: the general monitoring commission (that includes the Major and other commands which aims to make the strategic management of the process) and the energetic teams of each building (that runs and make the operational monitoring of the project)

In the methodological level, the steps are simplified in this kind of centers in front of the implementation in schools as the pedagogic side of the project is not such important

The workers involvement is prompt and quickly put into practice some of the actions identified in the audits.

The monitoring of electricity consumption can display real-time results about the savings achieved what becomes an important element of motivation.

During the first 6 months of the 2011 it has been constituted the committee and the energetic team and it has been done: the audit, the energetic tour, part of the training and dissemination and the identification of some of the actions to be implemented. It has also been implemented some of the actions that could have been done by the managers and workers of the buildings

Images of the monitoring program and energy tour



In general, the most important actions that have been implemented in each facility are:

Torreta: reorganization of the training activities according to the needs of lighting. That means priorities the use of those rooms with natural light, always if the requirements remain the same. The other major action has been to ensure any light or heating remain on when no necessary.

Pavilion: Have a control of the lighting while the cleaning service is working. Especially important has been the partial opening (when before the opening was total) of the field focus when being cleaned. Replacements of the field lighting by more efficient ones and programming the vending machines are other important actions done.

Current status of the project (September 2012):

After the municipal elections (May 2011) the city council began structural reorganization processes that have stopped the project temporarily. In these moments it is important to execute some actions of the plan and calculate the savings achieved in the first year.

Estimated savings achieved:

Based on the monitoring of the electric consumptions, the savings achieved in this vector in front of the beginning of the project are really interesting:

Torreta, community center. We have the data from the monitoring equipment of a whole year. Comparing the electric consumptions between March 2011 and March 2012 the savings achieved are around 3200kWh, what represents a reduction of the 57%. This data is a comparative between the two months, but not the annual calculation that already has to be done. However, the reduction is more than representative, and the most important is that has been achieved with a minimal investment and a big participation of the facility managers.



Sports center. We have data from 2011. At the end of the year there was a problem with the monitoring equipment that is not fixed yet. However, in electricity if we compare the schedule consumption of the first week of February 2011 (in orange), (before the beginning of the management actions) and the second week of June 2011 (in blue) the weekly consumption has been reduced in a 41% (908 kWh).



In absence of gas and electricity bills the definition of the reference year and the calculation of saving achieved is pending to be done

Implementation cost: 7.000 €. Includes the contract of the audit of the two buildings, the support given in the energetic tour, training and monitoring (equipment, installation and monitoring) of the electric consumption of the two buildings. That cost has been assumed by Diputació de Barcelona.

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