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Promoting Energy efficiency to Local Organisations
through dissemination Partnerships in Europe
Best Actions for Collaboration in Countries
for a High efficient Use of energy in Structural funds

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TEACH: training on energy analysis in school buildings - Umbria Region - Italy

(project supported by SAVE)

Promotion of an energy analysis methodology shared with other European schools. The methodology intends to be a concrete tool for energy intervention on school buildings. It is addressed to pupils and public managers of the school sector.

Target Groups	Sector	Field
<ul style="list-style-type: none"> - Local authority - Regional authorities - Decision makers 	<ul style="list-style-type: none"> - Buildings (including municipal properties) 	<ul style="list-style-type: none"> - Information - Education and training

ANALYSIS

CONDITIONS BEFORE THE INITIATIVE

Problems related to energy find very little space in all the educational programmes and energy saving thematic. Together with renewable sources, in Italy only 10% of the total training courses deal with these matters.

Moreover, only a very small percentage of school buildings is currently monitored and energy analysed. Maintenance and management interventions usually concern only the heating and electrical systems. These and other technical information have been gathered through a detailed analysis of the state of the art developed before the implementation of the project in each local context involved.

DESCRIPTION OF THE PROJECT

In the first step, 150 school buildings were selected in the regional territory; the selection was done taking into account the overall state of the school buildings, the state of the heating and electrical systems, their age; other criteria were the number of students and the willingness to participate to the project of the local teachers and public managers to whom the project was addressed.

The second step was the implementation of guidelines to develop an harmonized energy analysis valid for all the 150 buildings. The guidelines has been discussed with students and teachers in each school.

The third step was the organisation of seminars aimed to increase the awareness of all the involved actors to the energy issues and to train them on how to develop the energy analysis in each selected building.

The fourth step was the implementation of the energy analysis and the identification of actions to be done in order to improve the energy efficiency of the selected buildings.

EXPERTISE

The project has required engineering and energy agencies expertise as well as the involvement of the school teachers.

All the partners involved had previous experiences in the development of similar projects, studies and training courses.

COST AND BENEFITS

The TEACH project is financed by the European Community and by local agencies:

Contributing from the EC: 50% (53.750 euro)

Local contribution: 50% (53.750 euro)

Even though TEACH is a research and training project, it is contributing to the improvement of energy efficiency of school buildings through the development of an energy saving programmes in schools.

Once these programmes will be fully implemented by the end of 2005, the expected results for the 150 schools involved are:

Energy saved per year: 34.130.000.000 kcal

CO2 avoided emissions per year: 15.000 tonnes

Money saved and cost reductions per year: 1 ml EUR

Additional benefits, not economically quantifiable, derive from the raised awareness on the energy related issues of the pupils of the schools.

PARTNERSHIP

Partners of the TEACH project are:

Energy Agency AEA – Italy (co-ordinator)

EAJKM – Austria (energy agency)

CODEMA – Ireland (energy agency)

ITIS Gubbio – Italy (high school)

National Museum of Science and Technology - Italy.

AEA and EAJKM were also responsible for the activities developed by the schools (two in Italy and two in Austria), CODEMA was responsible for the activity of one school (in Ireland).

The Museum built the website of the project, the site was also published in a CD ROM to allow the consultation off-line.

AEA, as project co-ordinator, is the agency that established the partnership and who supported and verified the partners activity. AEA connected all the energy agencies points of view, scientific and methodological support, and the ITIS reflected this from the schools didactic points of view, granting a constant exchange and a constant connection throughout all the project.

RECOMMENDATIONS

OBSTACLES

Some problems arose during the survey phase as some information and data needed for the energy analysis were not available.

Particularly in some cases:

- the access to the heating plant was not possible
- exact data on the solar radiation were not available
- temperatures survey was not enough accurate or not available.

RECOMMENDATIONS

The access to the data and information needed is a crucial part of this activity; this is especially true when non experienced persons (as the students are) are involved.

Special efforts must be done by the local authorities and by the Energy Agencies involved to support and to ease the process of data gathering.

TO KNOW MORE

Name organisation [Agenzia per l'Energia e l'Ambiente della Provincia di Perugia S.p.A.](#)
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E-mail : energia@provincia.perugia.it
Website : <http://www.provincia.perugia.it/aea>

USEFUL INFORMATION

List of Internet sites

[English and Italian Language / http://ww.museoscienza.it/progtech/](#)

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