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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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Renewal of municipal boiler installations in Lyon -

City of Lyon (69) - France

Design and deployment of a renewal programme for 78 municipal boiler installations for Lyon municipal council

Target Groups	Sector	Field
- Local authority	- Buildings (including municipal properties)	- Equipment / appliances - Monitoring & Management

ANALYSIS

In recent years the Lyon city council has commissioned a number of studies in housing complexes aimed at improving energy efficiency and reducing operating costs.

In September 1991, the city of Lyon undertook a preliminary energy-saving survey of 78 buildings. The objectives of the survey were:

- To accurately gauge the energy levels of the installed equipment (fuel and consumption ratios);
- To make recommendations on necessary work (safety, energy saving, conversion and modernization of the installations, management);
- To propose a programme of work and suitable means of funding.

The 78 buildings involved in the survey (40 schools and a further 38 buildings with various purposes: concert halls, administrative buildings, gymnasias, stadia, youth clubs, libraries, museums) together represented:

- 266,500 sq.m, i.e. 22 % of built property;
- Heat consumption of 4,190 TOE, electricity consumption of 12,530 MWh, and water consumption of 358,200 cubic metres.

The energy consumption of the 78 buildings account for 30 % of consumption by all the buildings in the city.

Recommended investment totals €6.5 M, of which €2.6 M is provided by savings in energy, with annual savings of €0.46 M (26 % of annual expenditure).

COST AND BENEFITS

FINANCIAL AND ENERGY SAVINGS, ENVIRONMENTAL IMPACT

As of 1998, forecast savings were 683 TOE and real savings 605 TOE. The difference can be explained by the fact that the energy consumption of some buildings has increased since the first surveys.

Financial savings totalled €366,000, against a forecast €350,000.

Renovation work continues (70 buildings have already been refitted), and yearly expenditure figures are maintained.

The action taken to reduce heat consumption has made a significant contribution to the reduction in emissions of pollutants and greenhouse gases (CO₂). By way of example, the heat consumption of municipal buildings generated 26,000 tonnes of CO₂ emissions in 1998 – a reduction of 9,900 tonnes (-27%) in ten years.

OTHER IMPORTANT POINTS:

- Subsidies obtained: 70 % for a survey budget of €115,000;
- Financial resources to cover investments: self-financing;
- Other environmental changes: programme for the systematic changeover from fuel-oil to natural gas boiler plants.

PARTNERSHIP

Rhônealénergie Environnement

RECOMMENDATIONS

The principal recommendations are:

- Seek professional advice for defining objectives and formulating the study programme. Design and planning assistance of this kind can be obtained from regional and local energy agencies;
- Include electricity and water consumption (which have major potential for energy savings);
- Define, on the basis of the survey, a long-term action programme;
- Monitor results on an annual basis to detect discrepancies and anomalies;
- Take further action once the programme is completed.

TO KNOW MORE

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USEFUL INFORMATION

List of Internet sites

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