

# ARPEGE - Coordination of the Network of New Jobs for Rational Energy Management - in Rhône-Alpes region

*Rhôneénergie-Environnement, France*

## Summary

The reduction of energy and water consumption in public establishments (local authorities property's, social housing, hospitals and universities) can only be effectively carried out if one person is specifically affected to this purpose.

The project aims to help towards the creation of jobs in this field; to coordinate the network of new jobs and to propose adapted trainings. This action is led in the whole Rhone Alpes region (France) and is supported by the Rhône-Alpes regional council and ADEME (Environment and Energy Management Agency). The first phase was held between 1999 and 2000. The second phase was held over 2001, 2002 and continues until beginning of 2003. Total duration: 3.5 years.

End-user area	Target Audience	Technical
<input type="checkbox"/> New buildings	<input type="checkbox"/> Citizens	<input checked="" type="checkbox"/> Energy efficiency
<input type="checkbox"/> Refurbishment of buildings	<input type="checkbox"/> Households	<input type="checkbox"/> Heating
<input type="checkbox"/> Transport and mobility	<input type="checkbox"/> Property owners	<input type="checkbox"/> Cooling
<input type="checkbox"/> Financial instruments	<input type="checkbox"/> Schools and universities	<input type="checkbox"/> Appliances
<input type="checkbox"/> Industry	<input type="checkbox"/> Decision makers	<input type="checkbox"/> Lighting
<input type="checkbox"/> Legal initiatives (municipal regulations, directives, etc)	<input checked="" type="checkbox"/> Local and regional authorities	<input type="checkbox"/> CHP
<input type="checkbox"/> Planning issues	<input type="checkbox"/> Transport companies	<input type="checkbox"/> District Heating
<input checked="" type="checkbox"/> Sustainable communities	<input type="checkbox"/> Utilities	<input type="checkbox"/> Solar energy
<input type="checkbox"/> User behaviour	<input type="checkbox"/> ESCOs	<input type="checkbox"/> Biomass
<input type="checkbox"/> Education	<input type="checkbox"/> Architects and engineers	<input type="checkbox"/> Wind
<input type="checkbox"/> Other	<input type="checkbox"/> Financial institutions	<input type="checkbox"/> Geothermal
	<input type="checkbox"/> Other	<input type="checkbox"/> Hydro power
		<input type="checkbox"/> Other

## Context

The natural resources preservation and the environment protection are two great stakes of this century. The progressing exhaustion of resources, the increasing greenhouse gas emissions, the reduction of the energy dependency are subjects to which citizens are more and more concerned about. The decision makers and elected representatives must pay an increasing attention to this fact. The managers of collective and individual properties have an important part to play. It consists of a daily management and investments in good systems: to control and to monitor the energy consumption (gas, electricity, water), to develop the energy production using renewable energy, to integrate the environmental concerns in the development. The development of new internal competences will enable the good working of management. Creation of specialised jobs leads to a better awareness of these topics and allows costs savings.

The location of the project is in France, Rhône-Alpes region. An area of 43 700 km<sup>2</sup> and 5.6 millions of inhabitants.

## **Objectives**

Creating, coordinating, professionalising, and transforming **new youth jobs** (dedicated to energy monitoring in the Rhône-Alpes region) into permanent jobs.

## **Process**

The scheme helps the structures that are interested in carrying out their project, in defining their needs towards the first new employee's missions. Subsequently, various actions are taken: support with professionalisation; coordination (visits to facilities, organisation of workshops, thematic meetings), and training for young employees. The duration of the first phase of the project was July 1999 – July 2001, and the second phase September 2001 – March 2003.

### The methods used:

- a canvassing programme targeting structures liable to employ a youth by encouraging them giving prominence to the financial savings and the environmental benefits;
- development of convincing arguments on the value of energy consumption monitoring, marketing steps;
- conception of communications tools, namely to create awareness;
- reviewing and testing tools for the evaluation of saving services and indicators.

### Example of main new employee's tasks:

- analysis of consumption and choice of adequate tariffs;
- adaptation of equipments;
- follow-up and check-up of consumption and supplying;
- making consumers aware of good practices and encouraging them.

## **Financial resources and partners**

This action is led in the whole Rhône-Alpes region (France) and is supported by the Rhône-Alpes regional council and ADEME (Environment and Energy Management Agency). The total cost of the project is 366 k€, with contributions from the regional council of 329 k€ and from ADEME of 37 k€.

The partners were Regional Council of Rhône-Alpes; Charbonnières-les-Bains; ADEME, Rhôneénergie-Environnement (Lyon); 10 partners on site spread out in the whole region but working in a well defined area (energy associations, Local energy agency, energy syndicate).

## **Results**

- Energy consumption savings in local authorities: the local authorities have an average annual budget of approximately 35€ per inhabitant. The financial savings for the local authorities are of at least 10 % of the energy budget. For a town of 10 000 inhabitants, these savings represent about 35 000€ per year, thus the equivalent of the expenses (partial or total) linked to the recruitment of one person.
- Development of the structures activity; creation of jobs.
- CO<sub>2</sub> emissions avoided linked to thermal and electric energy savings.
- Creation of 50 jobs in local authorities; associations; public housing organisations; hospitals; universities.
- Awareness of elected representatives; employees; users; children.

### **Lessons learned and repeatability**

The positive aspects of project implementation were an awakening of targeted structures concerning the importance of energy monitoring and the creation of 50 jobs; energy savings made.

The problems encountered were financial difficulties for the structures to create new jobs, new employment's planned actions drifted to more functional missions, diversity of the youth employee's activities and difficulties with gathering the young employees and their employers.

Subsidies are needed for the first two years. This type of scheme requires many partners on site in order to prospect in the structures liable to employ. A financial help (national or regional) is necessary to help the structures to recruit.

### **Contact for more information:**

Organisation / Agency: Rhôneénergie-Environnement

Main contact : Emmanuel JEANJEAN

Address : 10, rue des Archers – 69002 LYON

Tel: +33 4 78 37 29 14

Fax: +33 4 78 37 64 91

E-mail: [emmanuel.jeanjean@raee.org](mailto:emmanuel.jeanjean@raee.org)

Web Site: [www.raee.org](http://www.raee.org)

Printed reports or other literature available:

Title: \* "Make costs savings by creating jobs to protect natural resources and to fight against the climatic change"

\* Project 1<sup>st</sup> phase report

\* Project 2<sup>nd</sup> phase report