



The Advice on Energy Divided

Heol, Agence Locale de l'Energie du Pays de Morlaix - France

Summary

The service consists of the realization of an energy balance for the communal building starting with a visit and using 3 years of energy-related invoices. Software allows HEOL to analyze the 3 years of invoices and to make an Assessment. An analysis of this assessment is made with recommendations enabling the collectivities to decrease this expenditure. The service proposes to also offer assistance for all the public projects of construction or restoration of buildings. HEOL also organize training for politicians and technicians.

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

Context

This service of "Advice on Energy Divided" was created by ADEME in a pilot operation in 1996 and 1997 because ADEME saw that little collectivities didn't have energy competence in their technical service to decrease the energy expenditure. So ADEME imagined to divide the competence of a structure between different collectivities which would adhere to it.

In Morlaix Country, this service was before assured by the Trade union of electricity of the canton of Lanmeur since 1998. When the local energy agency was created in 2001, it was decided according to the will of the trade union to transfer the service to Heol.

Objectives

Main goal continued by the operation is the reduction of consumption of energies in the public building of the collectivities and of the public lighting.

Process

At first, an energy adviser come to the collectivity and visit all the public building.

He takes at the same time the energy invoices of the last 3 years.

Then, he introduces the invoices in a software realizing an assessment.



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With this assessment, he can write a smaller document, summarizing the assessment and with advices making the collectivities possible to reduce its expenditures.

The assessment and the analysis are given to the Mayor in a meeting.

We assist the collectivity for the entire building project it has. This assistance aims to build with a better environmental quality and smaller energy invoices.

We organize some training for elected people of the collectivities and the technician. The subject of this training could be the public lighting, wood energy, high environmental quality in building, ...

Financial resources and partners

The cost of the service is 1 € per inhabitant. We have some subsidies of the Department that reduce this cost for the collectivities to 0,86 €/ inhabitant. A county adds other subsidies for its cities.

One adviser can work on a population of almost 50 000 inhabitants.

Results

The results of the assessments let appear disparities between the collectivities. Some saw their consumption and expenditure decreased and others saw the reverse. Several factors come to explain this progression : first of all, the cost of energies which since 1999, increases. Moreover, several of the collectivities of North Finistere develop their communal equipment. Thus, on the communes of which we have the figures, sociocultural rooms or sports rooms were built and increase inevitably consumption.

The realizable economies by the service of the Advice on Energies Divided were evaluated between 1.34 and 3.60 € / inhabitant / year (On average: 1.89 € / inhabitant / year. This service realize very quickly and at cost zero, real economies, which correspond to tariff optimizations of the contracts of electricity and gas, in general being the subject of followed recommendations.

To compare, the noted expenditure for energy in the French collectivities from 500 to 1 999 inhabitants is of 25,9 € / inhab / year. For the five initial collectivities, the average of the annual expenditure for energy is 20,03 € / inhab., and the percentage of economy on this budget exceeds 9 % in 2003.

The last assessments carried out integrate consumption and expenditure of water. This field, taken as energy, is also prone to drifts of consumption and of the very important annual expenditure. It is important by this work, on the one hand to save this expenditure, because the cost of m³ is expensive just as the costs of treatments, and on the other hand to aware that this element tends to being wasted and that it is rare in the drinkable state.

Lessons learned and repeatability

This service is completely reproducible in each territory where there are small collectivities of less than 10 000 inhabitants. The bigger collectivities can work with their technical services.

The used software was developed by ADEME of Brittany and Poitou-Charentes. Maybe it could be translate to be used in Europe.

Contact for more information:

Organisation / Agency: Heol - Agence Locale de l'Energie du Pays de Morlaix

Main contact : Frédéric Marchand

Address: 9, rue Basse 29 600 Morlaix

Tel: + 33 2 98 15 18 08

Fax: + 33 2 98 63 27 57

E-mail: conseils.energies@wanadoo.fr