

## Workshops on Energy Savings at Home

### *Agencia Provincial de la Energía de Huelva, Spain*

#### Summary

The Agencia Provincial de la Energía de Huelva has organised workshops in eighteen municipalities in the province of Huelva. The main objectives of the project were to disseminate information on end-use energy efficiency and on social related aspects including lower energy bills. The target sectors were neighbourhood resident associations, association of women and housewives. The technologies used in the workshops included energy efficient lights, a demonstrative system of energy consumption and a solar lamp. Informative leaflet and customized questionnaires for the domestic sector were also developed. The main source of funding has been the Diputación of Huelva and the Energy Agency.

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 checked="" 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 checked="" type="checkbox"/> Appliances
<input type="checkbox"/> Industry	<input type="checkbox"/> Decision makers	<input checked="" type="checkbox"/> Lighting
<input type="checkbox"/> Legal initiatives (municipal regulations, directives, etc)	<input 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 type="checkbox"/> Sustainable communities	<input type="checkbox"/> Utilities	<input type="checkbox"/> Solar energy
<input checked="" 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 workshops were carried out in the following municipalities: Lepe, San Juan del Puerto, Cartaya, Higuera de la Sierra, Gibraleón, Trigueros, Ayamonte, Punta Umbría, Villalba del Alcor, Moguer, La Palma del Condado, Almonte, Bollullos Par del Condado, Cumbres Mayores and some districts of the city of Huelva. The main reason to carry out the workshops was the low level of information about energy savings.

Different subjects have been tackled in these workshops, namely: better knowledge about the electricity bill; information about the European energy label; energy efficient lighting, and energy saving measures at home.

#### Objectives

- To increase the knowledge about the electric bill, including the rate structure and the subscribed power;

- ❑ To know the energy label in order to make the best choice when buying household appliances;
- ❑ To distinguish the different types of lights for the domestic sector and their consumption;
- ❑ To calculate the energy and economic saving of energy efficiency measures.

These workshops were carried out in an ample zone of the Province. Also, the Agency's technicians developed material especially for these workshops for helping to understand these themes.

### **Process**

This project, "Ahorro Energético en el Hogar", consists of raising the population's awareness to save energy at home. In addition, in these workshops, some concepts are expounded. These concepts are electrical rate, electrical power, essential calculations and electrical cost in Spain. The free electrical market is explained as well as the actual situation in Spain and in the municipalities.

The project was organized as follows:

- Phase 1: To prepare the project;
- Phase 2: To compile the necessary documentation and material for the workshops;
- Phase 3: To realize the workshops strictly speaking;
- Phase 4: To evaluate the results of the project.

### **Financial resources and partners**

This project has entailed reasonably low costs. The only costs that this project has entailed are: office material, costs of printing and cost of journeys of the technicians towards the target municipalities. Diputación of Huelva has funded this project in its entirety. Specifically, the roles of the Energy's Agency of Huelva in these workshops have been only to give the theory knowledge and solving all doubts of those present.

## **Results**

The results of this project have been very satisfactory.



426 persons in the 18 municipalities where the workshops took place attended the workshops. The evaluation found out that the participants have changed their attitudes as regards efficient use of energy.

## **Lessons learned and repeatability**

No problems were encountered throughout the project. Due to the recognised success of this experience, this project will be repeated in other segments of population and in other places. These workshops can be repeated in other countries, with the necessary adaptations to the specific situations. The house-husband/housewife is the main target sector due to their role in choosing and using energy consuming products. As a conclusion, it can be said that all the objectives in the initial project have been reached.

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

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