



Setcom Project

“Sustainable Energy in Tourism dominated Communities”

Ávila Deputy County Council
Área de Asuntos Europeos

WP2: Capacity Building. Task 2.2
Best Practice Examples & Discussion



Best practise in Avila

Fuente Alberche, Rural Tourism Center- Farm school.

- Natural area dedicated to environmental education, and rural tourism.
- Bioclimatic building of 1200 m², build with non-polluting materials such as stone, wood and cork, also have used the draught and the sun to get a good climate, both summer and winter.



Time of operation:	Since january 2006
Type of facility:	CTR- Farm school
Built Area:	967,99 m ²
Number of beds:	51
Number of employees:	<10

Fuente Alberche, Rural Tourism Center- Farm school.

1. Construction materials:

- Solid woodwork treated with natural oils and pigmentation outside
- Mixed ceramic tile.
- Natural cork
- PVC-free materials in general
- Horizontal panelling in clay or wood
- Ceramic material in enclosures and estructures.
- Stone facade.

Environmental respect:

Selection of materials for his bionic quality and therefore its direct impact on the health of users.

Use of local materials in most of the building.



Fuente Alberche, Rural Tourism Center- Farm school.

2. Renewable energy sources.

- Solar Thermal for hot water and support for the radiant floor heating with low temperature.
- Solar photovoltaic:



Photovoltaic panels:	16 panels
Surface Plate:	20 m2
Number of batteries:	12
Range: 2 days without sun:	2 days without sun
Reinforcement:	32 KW generator



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- Biomass:

Biomass boiler for radiant floor heating with low temperature

Model: KWB Multifire

Boiler 60 KW

Maximum perimeter of the hopper into 3-4 cm

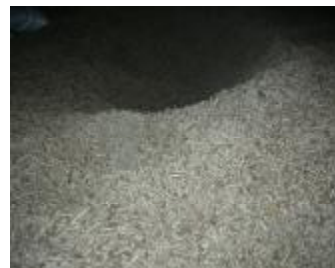
Biomass currently used:

Pineapple shell

Pellets



Pellets



Pineapple



Fuente Alberche, Rural Tourism Center- Farm school.

3. Save and energy efficiency measures:

- Distribution inside the building clearly mark day and night area, improving the performance of the entire building for energy saving in a passive.
- It has an enclosed courtyard that acts as a regulatory device in summer and winter to heat / cold.
- Fireplace in the living/dining room.
- Biological treatment and water reuse for irrigation and other activities of the farm school.
- Sunlight in all placements and orientation of spaces depending on their use.



Fuente Alberche, Rural Tourism Center- Farm school.

4. Environmental education project.

- Main objective: Enjoy nature without harming and also working to preserve and conserve our natural environment.
- Farm school: To teach children to respect and take care of nature through educational activities.
- The center and the activities it will be in harmony with the following general principles:

Caring for the Earth: Caring for the environment, the use of natural resources.

Reinvest the surplus generated: Developing a sustainable economy creating new initiatives as sustainable.

Creation of optimal systems: Trying to set up systems for low power consumption and high productivity.

Systems integration: Such as agriculture and forestry, industry and environmental protection.

Self-sufficiency: Each system must be to the greatest extent possible.

Revaluation: Recovery and adaptation of traditional and modern systems to promote the development of cultural and sustainable employment.