



Project co-financed by the European Regional Development Fund



EduFootprint

School Low Carbon Footprint in Mediterranean cities



**Improvement of thermal comfort –
installation of biomass boilers in
Kindergarten of Portagem**



areanatejo
Agência Regional de Energia e Ambiente
do Norte Alentejano e Tejo

Background

The mission of AREANATejo is:

- To contribute to energy efficiency and to the best use of endogenous energy resources;
- Developing projects and methods taking into account the need of improvement energy efficiency;
- Disseminating best techniques and procedures for the rational use of energy and resources and for preserving the environment;
- Promotion of a sustainable local development, concretely, to obtain a greater energy efficiency and better environmental performance of the Associated Municipalities, where the Municipality of Marvão is inserted.



Pilot Area: Alto Alentejo (PORTUGAL)

10 Municipalities:

- Alter do Chão
- Arronches
- Avis
- Castelo de Vide
- Crato
- Elvas
- Marvão
- Monforte
- Ponte de Sor
- Sousel



Interreg
Mediterranean



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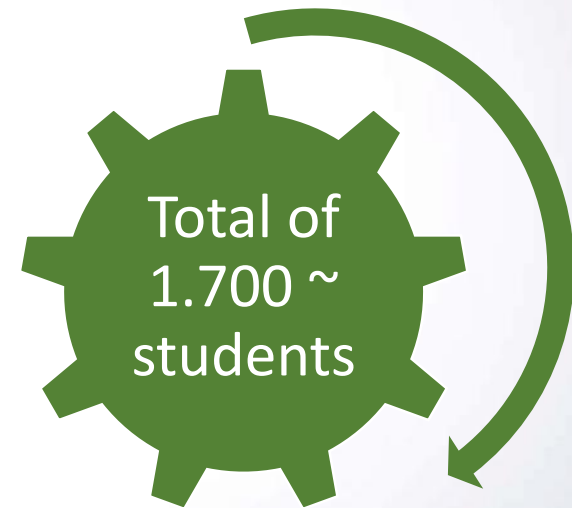
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Pilot Area: Alto Alentejo (PORTUGAL)

10 Schools:

1. School Center of Alter do Chão – 142 students
2. School Center of Arronches – 242 students
3. Elementary School and kindergarten of Avis – 79 students
4. Primary School and kindergarten of Castelo de Vide – 111 students
5. Elementary School and Kindergarten Ana Maria Ferreira Gordo (Crato) – 236 students
6. Santa Luzia Elementary School (Elvas) – 497 students
7. Kindergarten of Portagem (Marvão) – 20 students
8. Primary School of Monforte – 67 students
9. Ponte de Sor Elementary School – 288 students
10. Cano Elementary School (Sousel) – 24 students



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Developed Tasks

1. Energy diagnosis

- Planning and gathering information:
 - Invoices of the different types of energy;
 - Plants and descriptive memories of facilities;
- Fieldwork:
 - Visits to the building;
 - Interviews with the responsables;
 - Survey of the characteristics of installed equipment;
- Analysis and processing of information:
 - Characterization of energy consumption by sector;
 - Characterization of energy consumption by type of use;
 - Identification of opportunities/measures to rationalize energy consumption;
- Elaboration of the Energy Efficiency Diagnosis Report.



Developed Tasks

2. Implementation of energy efficiency measures

This task considered the installation of the following equipments:

- Biomass boiler, with 16 kW, for central heating that is responsible for heating the space through 4 radiators with 12 elements each.

3. Main results

- Total Investment: 3.425 Euros funded at 85% by EduFootprint project
- Energy cost reduction (annual): 302,21 Euros
- Pay-back: 1,7 years (20 months) – considering 85% financing



Developed Tasks

4. Photos



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