



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 Primary  
School of Monforte**



## 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 Monforte is inserted.

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## Pilot Area: Alto Alentejo (PORTUGAL)

### 10 Municipalities:

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



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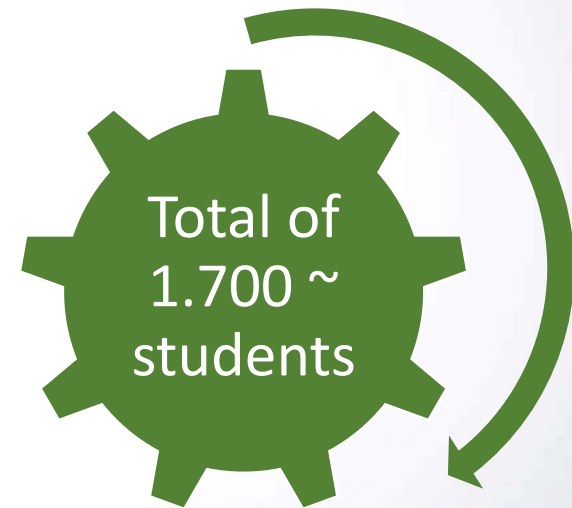
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## Pilot Area: Alto Alentejo (PORTUGAL)

### 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:

- 4 biomass boilers, with 9,5 kW each, for central heating that will be responsible for heating the space.

## 3. Main results

- Total Investment: 6.945 Euros funded at 85% by EduFootprint project
- Energy cost reduction (annual): 347,25 Euros
- Pay-back: 3 years – considering 85% financing



# Developed Tasks

## 4. Photos



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