



RES IN RURAL ENVIRONMENTS - SESIMBRA PORTUGAL- SESIMBRA NATURA PARK (Herdade da Mesquita)

This pilot aims at creating energy independence and the long-term sustainability of this Natura Park's buildings, a "living-lab" directly involving different types of actors and target public. The implementation of this project allows to test and assess a group of technological, pedagogical and economical/business solutions and procedures.

It's created a digital platform that discloses, through a monitor displayed in the main hall, the energy consumption in the project buildings. This platform, linked to energy monitoring equipment, shows real time energy consumption data to the users of the intervened buildings, contributing to the dissemination of data that allow better planning and behavioral change towards the utilization of the project facilities and equipment.

It is expected to raise the awareness, knowledge and motivation of rural communities for the innovative aspects of the EE procedures and the RES technology, besides the benefits of behavioral changes in day-to-day life, demonstrating viability of some measures, the consequent environmental benefits and promoting green business.

Macro objective:

Increase the energy independence, implement behavioral changes, create new opportunities for green entrepreneurship and enhance the quality, attractiveness and competitiveness of the rural communities while contributing for the GHG emissions' reduction and new jobs' creation.

Specific objectives:

Increase the EE and utilization of RES in the pilot buildings, raise the consciousness of the community in the scope of energy and resources' utilization, increase the valorization of local and natural resources, contribute for the local energy mix, for the creation of local green energy business and diversification of the rural economy.

RES potential to be exploited:

405 897 kWh/y from biomass residues
14 099 kWh/y solar radiation