RES POTENTIAL OF GRANOLLERS AND PALOU AREAS

GRANOLLERS MUNICIPALITY, CATALONIA

Based on the results of the analysis of the potential of exploitation of biomass energy in the Palou area, which is medium-high, it has been proposed to do an executive project for thermal network construction based on forest biomass, to supply 4 Palou's facilities (1.Old Schools facility, 2.Agriculture Department office, 3.Palou public center and 4.Palou football pitch).

The executive project bases its operation in the 2 biomass boilers to be installed during the refurbishment works of Palou football pitch, and the existing biomass boiler installed in Palou public center in february 2018.

The RES potential of this project is the consumption of 161.259 kWh/y from forest biomass of local origin, that allows to save 17.233 kWh/y of electricity and 140.984 kWh/y of diesel for old boilers. In sum, the implementation of this project will achieve the energy saving of 158.217 kWh/y, will avoid the emission of 43 TnCO2 eq /y of GHG, and will allows the saving of 12.414 €/y.

Within this pilot is developed a small concrete example for self-consumption to improve local potentials from forests and agricultural land. The analysis of the area and awareness rising campaign aims to improve the energy savings, use of local energy resources and reduction of dependence on external energy. This good practice will help to support the implementation of more micro investments and change the behavioural of inhabitants.

Macro objective:

Local investment opportunities (EE measures and RES pilot projects).

Behavioural change of citizens, and potential micro investors in relation to apply EE and RES measures.

Specific objectives:

Energy saving in the operation of public facilities in rural and suburban area

Engaging local stakeholders in energy saving measures and RES implementation

Raise awareness for RES benefits.

Increase RES share in local energy mix

Reduce energy dependence.

RES potential to be exploited:

158.217 kWh/y saved, 43 TnCO2 eq /y of GHG emissions avoided, 12.414 €/y saved.

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Ajuntament de Granollers

Interreg Mediterranean COMPOSE

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