

# De l'estalvi i l'eficiència energètica a inversions en renovables

Virgínia Domingo Reig  
Ajuntament de Granollers



## Jornada: Oportunitats de finançament per a la implantació d'energies renovables i mesures d'eficiència energètica

### IMPLEMENTATION PROGRESS

- 1st activity- RES potential analysis of rural area of Granollers- Juliol 2017.
- 2nd activity- Awareness raising campaign to promote behavioural change.  
Denominació Energètica Palou (D.E. Palou) ( 70 %)
- 3rd activity- Small RES demonstrative projects in public facilities (5%)
- 4th activity (1st phase) - SWOT and feasibility study of different strategies on EEM and RES investments in rural areas – Setembre 2017.
- 4rth activity (2nd phase)- Investment plan for RES expansion in Granollers rural area and other MED rural areas.

## Jornada: Oportunitats de finançament per a la implantació d'energies renovables i mesures d'eficiència energètica

### IMPLEMENTATION PROGRESS

To sum up, Granollers pilot action it has been implemented in 60%, taking in consideration 1<sup>st</sup> to 4<sup>th</sup> activities.

The RES potentials to be exploited with the implementation of 4 RES demonstrative projects in public facilities are: 34.525 kWh/y from forest biomass of local origin (to supply 17.233 kWh of electricity/y and 17.292 kWh of thermal energy/y); and 24.000 kWh/y from solar radiation (PV self-consumption system) to supply a public center, a public pumping for irrigation system, a public facility and the provision of its electric vehicle charging point.

**Estalvi energètic = 48 MWh/any**

**Estalvi emissions GHG = 13 TnCO2eq/any**

## Jornada: Oportunitats de finançament per a la implantació d'energies renovables i mesures d'eficiència energètica

### KEY FINDINGS SO FAR

- **Study/Analysis on RES potential of rural area of Granollers**, show us that there is enough potential for a 100% Granollers renewable energy rural area, combined with PV electricity + thermal production by forest biomass, from local origin.
- But **technology and the existence of a renewable resource do not ensure success**; other strategies are needed to facilitate the expansion of RES and EEM in rural areas .
- From that study conclusions, has been selected **some RES demonstrative projects** (technically & economically feasible) **to be implemented until 30th April 2018**. The selection of pilots also responds to criteria of diversify technologies and business models to implement and their replicability in private sectors

## Jornada: Oportunitats de finançament per a la implantació d'energies renovables i mesures d'eficiència energètica

### RES DEMONSTRATIVE PROJECTS

#### Executive construction project of a thermal network to supply 3 public facilities

60.778 kWh/y saved- 290m<sup>2</sup> surface- 97  
PV panels  
9,97 TnCO<sub>2</sub> eq. saved; ROI = 15 years.

Take advantage, from the biomass boilers  
installed in Palou football pitch  
refurbishment works (september2018

130 kW of heat network: Civic Center  
Palou + Old schools + House of  
Teachers

500 m.l. Length

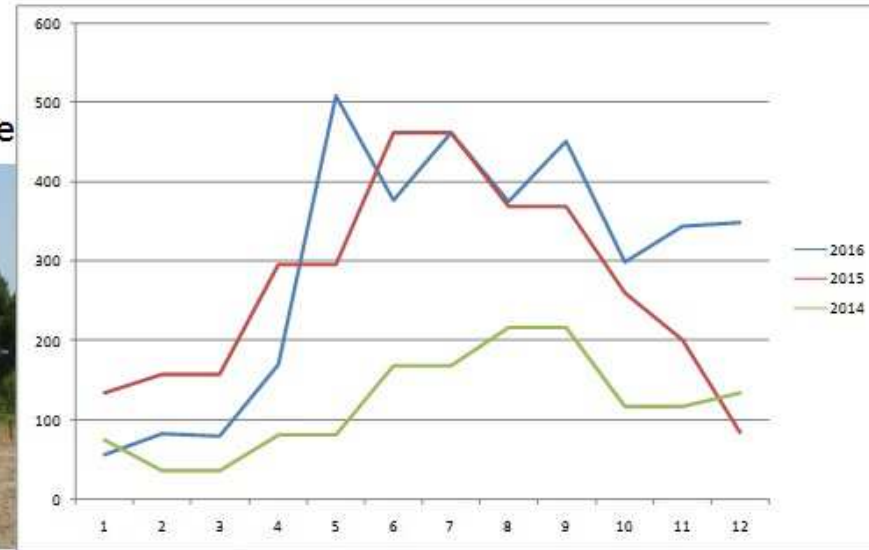


## Jornada: Oportunitats de finançament per a la implantació d'energies renovables i mesures d'eficiència energètica

### RES DEMONSTRATIVE PROJECTS

#### Installation of PV self-consumption system in a public center

6.600 kWh/y saved- 15 m<sup>2</sup> surface- 9 PV panels;  
0,85 TnCO<sub>2</sub> eq. saved; ROI = 3 years.  
Possibility to expand by recharging electric vehicle

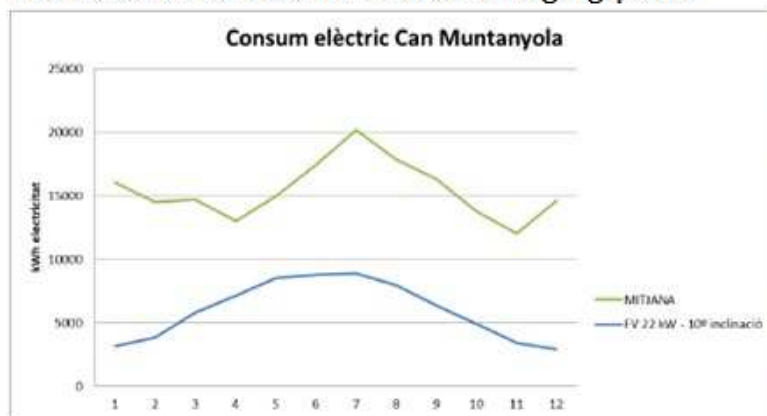


## Jornada: Oportunitats de finançament per a la implantació d'energies renovables i mesures d'eficiència energètica

### RES DEMONSTRATIVE PROJECTS

#### Executive construction project of a PV pergola for self-consumption in a public facility

32.390kWh/y saved- 290m<sup>2</sup> surface- 97 PV panels  
9,98 TnCO<sub>2</sub> eq. saved; ROI = 11 years.  
Provision of its electric vehicle charging point



## Jornada: Oportunitats de finançament per a la implantació d'energies renovables i mesures d'eficiència energètica

### KEY FINDINGS SO FAR

- **Administrative barriers:** public procurements to develop 1st to 4th activities included in pilot and to implement 4 demonstrative projects (3rd activity). Preparation and approvation of some executive projects (2 demonstrative projects) and internal procedures to built it.
- **Investment plan for the expansion of RES in Palou** and other rural area of MED area, using a participatory methodology with local and regional relevant actors, and taking into account the needs and characteristics of the 3 private sectors present in the rural area: primary (farmers), secondary (industry/producers) and residential.



## Jornada: Oportunitats de finançament per a la implantació d'energies renovables i mesures d'eficiència energètica

### FUTURE STEPS

- Continue with the implementation of the **awareness raising campaign to promote behavioural change-D.E. Palou**: completion of training and capacity building activities (until April 2018), and quantification of the energy savings in 11 public facilities, for 9 months of campaigning, and comparison with the same period in 2016- April 2018
- Finishing the elaboration of the and other rural area of MED ***Investment plan for the expansion of RES in Palou***area- March 2018
- Implementing **RES demonstrative projects** selected (technically & economically feasible)- April 2018

# Gràcies !



<https://compose.interreg-med.eu>

<https://www.facebook.com/Compose-MED-project-1668026983215508/>

<https://www.linkedin.com/in/compose-project-68055914a/>

@composeproj