PROJECT Vineyards for Heat Viñedos por Calor Vinyes per Calor

www.vineyards4heat.eu













Improve pruning vine management



Biomass has traditionally been burned on the vine.

Only a small part has been incorporated into the soil as mulching.



Penedès region has 25.000 hectares of vineyard.

The initial situation, in 2014: aim to improve pruning vine management.

Objectives (multidisciplinary goals)



- Creating new jobs in the green economy
- Energy diversification (renewable energy source)
- Decrease energy bill (more competitive companies)
- Reduced product foodprint
- Low carbon emissions territory

Value Chain (in the LIFE project)

The project partners represented the entire value chain





Value Chain (post project)

The project partners represented the entire value chain





Characterization of biomass

CHARACTERIZATION DATA FOR AGRICULTURAL BIOMASS (GAINED FROM VINE PRUNING WASTE), ACCORDING TO THE FOREST SCIENCES CENTRE OF CATALONIA:



Calorific value (LCV)





Ash (dry base)

Boilers installed

A 500 KW BOILER IN THE NEW LA GIRADA DISTRICT HEATING NETWORK, WHICH SUPPLIES 4 PUBLIC FACILITIES IN VILAFRANCA. A 130 KW BOILER IN CAVAS VILARNAU, WHICH HAS ELIMINATED THE COMPANY'S DEPENDENCE ON FOSSIL FUELS.



We pick up near 300-400 Ha anually to supply La Girada boiler, it depends on the meteorology.

<u>Link vídeo</u>

District heating La Girada







Results

- More than 150 Tn / year of biomass served in La Girada boiler.
- In the district heating we have saved 153.000 Kwh of natural gas and 12.000 Kwh of electricity.
- In Vilarnau Cavas 100% of diesel has been replaced by biomass.
- The municipal water company is now a municipal services company.
- It's running the extension of the heat network to the Ricard Fortuny Social and Health Center.
- We are working with 100% vine pruning!

Past, present and future

2016: Premi '*Ciudad Sostenible*' recollit a la seu del Ministeri d'Agricultura, Pesca i Alimentació.

2018: Premi BEST LIFE recollit a Brussel·les el passat mes de maig. 2019: Premi a la Bona Pràctica en la gestió de la biomassa agrícola.

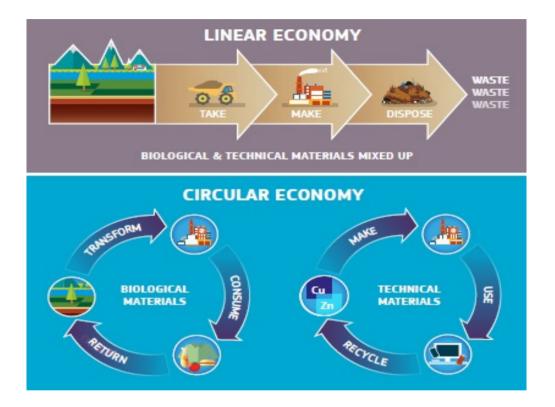








Rethinking the future



We need to be able to base our energy needs on renewable energy sources, Km0 and using the common sense of the circular economy.

CHALLENGES: Prepruning without falling to the ground and more homogeneous biomass (without medium branches).

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AJUNTAMENT VILAFRANCA DEL PENEDÈS



