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Position Forestry agent of the government of Aragon/Forester engineer government of Aragon
Field of work Forestry agent, in Bajo Aragon region. /Forester engineer in Teruel region

Experience

About the feedstock, processing & conversion My experience with biomass from LCMW is the forest works are in properties of the Government of Aragon or of the municipalities, also we realize the maintenance of edge of the road the banks of rivers, ways, and auxiliary strips, and it is auctioned later, or on the other hand the biomass LCMW till now by his lack of value is crushed and settles in the soil. Finally the function of the cleanliness of the biomass that we realize is for the threats of avoiding fires and the extension of plagues, and reducing the CO₂ emissions.

Policies, finance tools and legal regulations The legal regulations affect the biomass before the LCMW: Law 15/2006 of 28 December, Law of forest of Aragón and Law 43/2003, de 21 de november, Law of forest of Spain.

There aren't legal regulations affect the biomass after LCMW. The material before and after is turning into LCMW belongs to the town and to the government of Aragón.

There aren't specific policies regulating the LCMW. The autonomous funds of Aragón and Europeans centre on giving subsidies for the development of the municipalities of Aragón, but they don't centre only on the biomass LCMW. The LCMW is not transported is crushed and is left in the area, as food for the land. The LCMW doesn't sell, because the LCMW haven't value.

Difficulties & barriers

There aren't the subsidies in Aragon for the production of biomass LCMW, the review of the regulations is necessary for the production of biomass, It is necessary to verify the strategic plan in the field of the energy. In Aragon, only the Certification of the wood exists, the name is ARACERT.

The difficulties before and during LCMW are financial barriers, since the biomass LCMW is not valued, there would be valued the biomass LCMW if it was joining with another type of more valuable biomass.

Potential drivers & recommendations

The government must give subsidies for this type of biomass, promoting the employment of autochthonous resources and creation of employment in the rural world. The future of the LCMW is promising for the consumption of thermal energy in our country. I would increase the consumption of the LCMW there it must exist the thermal facilities that accept the LCMW.

Public support & good governance

Example 1: A practical case is to unify the consumptions of several municipal buildings, and to install a thermal centralized installation



that I consume LCMW property of the municipality.

Example 2: To organize a cooperative in which there is gathered the whole biomass LCMW of property of the farmers and to take advantage of it in a “District Heating&Cooling”

With the projects one would reduce the CO₂ emissions, employment would be created, anticipating fires.

Public acceptance regarding harvesting, processing & conversion

It should educate to the citizenship for the consumption of biomass of type LCMW, increase the number of facilities that accept biomass LCWM. Now only there are thermal facilities with biomass (Pellet) in several homes, and in the farms for bone of olive.

Good practices of cooperation & participation

The installation of boilers of biomass in public buildings, as the boiler of splinter in the house of Calanda's culture, or the boiler of splinter in two colleges in Teruel.

Good governance mechanisms

The public administrations are the entities that must give example to the citizenship. The government of Aragón has stimulated with approval of subsidies the thermal facilities of biomass.

Wider insight

Manufacturers and installers should investigate boilers and installations that accept the biomass LCMW, and the government gives subsidies to produce the biomass not profitable LCMW for his volume and the limited value.

Messages

“It is necessary to adapt the public installations to the consumption of the biomass of type LCMW”

“The biomass of type LCMW can be valid for the ignition of the stoves, fires and boilers like former”

“The extraction of biomass of type LCMW and to avoid it burning reduces danger of fires”

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Interlink

Author of several publications, among which are “Árboles del Matarraña” trees Matarraña, “Árboles Singulares del Bajo Aragón Histórico” Singular Trees of Aragon Historical and “Aula Abierta” Open Classroom: a tour of the natural environment of Matarraña . He is a regular contributor to numerous magazines, publications, lectures and courses related to nature and cultural heritage of Southern Aragonese territory.