

Spain, Aragón**Alberto Centelles Martín***Institution*

Monroyo Industrial S.L

Position

Manager and owner of the company

Field of work

In recent years, Monroyo Industrial S.L has focused on services for forest conservation, protection and improvement of the natural environment. Currently they are engaged in production of biomass as fuel.

Activities:

- Processing of pine wood for woodchips, biomass from forest maintenance
- All forestry works; firewalls, ecosystems and natural habitats maintenance, reforestation
- Installing park banks and garden furniture, building playgrounds, trails and signs

Nature protection activities:

- Cleaning beaches and other natural environments
- Riverbanks protection work

Monroyo Industrial S.L has equipment and experienced staff focused on the quality of their work.

*Experience**About the feedstock*

Pine wood residues such as bark or splinter of different sizes are used as garden mulch. Pine splinters are used for combustion and heat production in farms and public buildings. The pine wood is used for building of viewpoints, trails or recreational areas in natural parks

Processing chain

Steps in the processing chain of biomass:

1. Locating the spots with a good access to perform the work
2. Cutting the trees with chainsaws, piling the logs, loading at a truck
3. Transport to a harbor, export

Economy

Purchase of the raw material in the forest 3 - 6 €/t

Costs of the felling: 25-30 €/t (pine and cypress trees)

Production of pine splinters with a wood chipper: 12-14 €/t

Processed pine chips price: 45 – 90 €/t

In Matarraña region, there are two companies selling wood chips, Gil Forestal and Monroyo Industrial S.L. They produce about 4000 tons per month.

Context

80 % of the raw material is exported outside Spain (mainly to Italy, also to France)

20 % of the material is sold in 150 km radius (Huesca, Zaragoza, Barcelona, Tarragona, Lleida, Girona, etc.)

Monroyo Industrial S.L has their own biomass logistics center in Alcaniz.

Related formalities Industrial Monroyo S.L received subsidies covering 28 % of the costs for the machinery.

There is a support scheme for small projects creating new jobs.

There are no subsidies for biomass production in Aragón, but such subsidies can be received in the Valencia community.

Wider insight The biggest motivation for using the LCMW biomass is the possibility of economic compensation for the maintenance work. Due to the difficult access to riverbanks and roadsides and low density of the material is the extraction unprofitable. However, cleaning is necessary in these areas to prevent fires and harms connected with rivers floods.

Contact information

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Photo Gallery



Picture 1: Creating trails and viewpoints



Picture 2: Forest brigades



Picture 3: Forestry work



Picture 4: Wood chips



Picture 5: Resting spots

