

Value chains : Prime mover and Main Characteristics

- Stakeholder Type
- |   |   |
|---|---|
| <input type="checkbox"/> Farmer                     | <input type="checkbox"/> Agrarian Cooperative |
| <input type="checkbox"/> Public Institution         | <input type="checkbox"/> Agro-Services        |
| <input type="checkbox"/> Final Consumer             | <input type="checkbox"/> Farmer Association   |
| <input type="checkbox"/> ESCO                       | <input type="checkbox"/> Agro Industry        |
| <input checked="" type="checkbox"/> Pellet Producer | <input type="checkbox"/> Biomass Supplier     |

Location of Prime Mover

Municipality : Socuéllamos

Latitude : 39.295440

Longitude : -2.813218



- Type of Residue used in value chain
- Pruning       Plantation Removal       Both
- Crop Species used in Value Chain
- |                                     |   |                                     |                                  |
|-------------------------------------|---|-------------------------------------|----------------------------------|
| <input type="checkbox"/> olives     | <input checked="" type="checkbox"/> vineyards | <input type="checkbox"/> apples     | <input type="checkbox"/> pears   |
| <input type="checkbox"/> peaches    | <input type="checkbox"/> apricot              | <input type="checkbox"/> nectarine  | <input type="checkbox"/> plum    |
| <input type="checkbox"/> cherries   | <input type="checkbox"/> oranges              | <input type="checkbox"/> tangerines | <input type="checkbox"/> lemons  |
| <input type="checkbox"/> grapefruit | <input type="checkbox"/> hazelnuts            | <input type="checkbox"/> chestnuts  | <input type="checkbox"/> almonds |

Total Plantation Area involved in the Value Chain (ha) 30000

Typical APPR biomass production (tonnes/year) 20,000 t/y

Start Date of the APPR value chain (Month-Year) 2011











Factor Group	Description	Check the influence in success:(0)-Not relevant;(1)-May have influenced;(2)-Important for success;(3)It was crucial;(?)-Unknown					Check the 3 most crucial factors in WHOLE table
		0	1	2	3	?	
Logistics Chain	There were pre-existent collaborations established between farmers sector and biomass cosumers/traders	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	The introduction of new technologies (machine, handling systems, logistic chain) supported the implementation of new chains	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Private investment for entepreneurs was incentivised	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

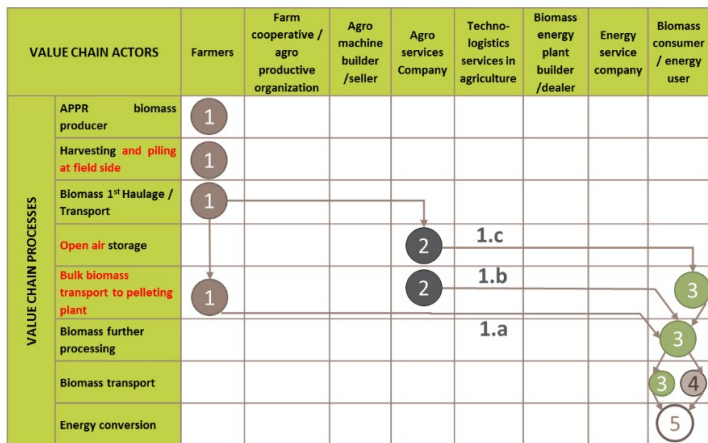
Short summary of the initiative (<100 words)

Summary of the value chain

Farmers carry out a haulage to the side of the field where the branches are piled. After 2-3 month storage in open air conditions, the biomass is sent to the pelleting plant. Local service companies like Pellets de la Mancha carry out the transport of the raw branches to the facility. The factory is located in the center of the province of Ciudad Real and manages waste hardwood from grapevines integrally. The facilities include appropriate technology for the process of branches. The whole production is entirely controlled during the production process which ensures the obtaining of a highest quality final product. The challenge is the processing to eliminate soil particles, stones, plastics and material wires. The product produced is marketed through a distributing company mainly, and sent to multiple users, mainly industrial heat and buildings heating, even though some schools and small heating units are also satisfied with their product. The product is competitive respect conventional pellets.

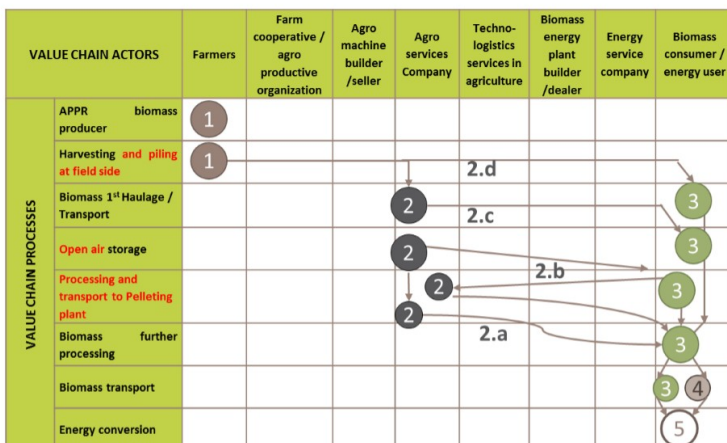
# Actors and Roles in Value Chain

Pelets de la Mancha Value chain 1



- 1 Local farmers (30 km radius)
- 2 Agro-service companies
- 3 Pelets de la mancha
- 4 Distributors, dealers, other intermediaries
- 5 Final consumers

Pelets de la Mancha Value chain 2



- 1 Local farmers (30 km radius)
- 2 Agro-service companies
- 3 Pelets de la Mancha
- 4 Distributors, dealers, other intermediaries
- 5 Final consumers



## Fuel Specifications

Final form of Biomass prior to Exploitation

- Bales of branches  
 Hog fuel-shredded

- Wood chips  
 Pellets

Moisture content (%) :

\_\_\_\_\_

Max Content of Ash (% a.r.) :

\_\_\_\_\_

Min LHV (kj/kg a.r.) :

\_\_\_\_\_

## Value Chain Details and Prices of fuels

End-users

- Self-consumption  
 Public-private buildings  
 Biomass to Market

- Industrial heating  
 Distributed heat networks

Distance between biomass production and its final use (km) :

30

Storage options

- On-farm storage  
 Intermediate storage prior transporting to end user  
 Direct delivery and storage at final user  
 No storage

Ownership of the APPR harvesting machinery

- Farmer  
 Leasing  
 3rd party-private

- Farmer's community  
 Municipality-public

Prices of fuels sold  
to final consumers

- Price of APPR biomass (€/t) \_\_\_\_\_
- Price of regular woodchips (€/t) \_\_\_\_\_
- Price of ENPLUS pellets (bulk-€/t) \_\_\_\_\_
- Price of domestic heating gasoil (€/l) \_\_\_\_\_

Have you filled the questionnaire about  
mechanized pruning/plantation removal ?

Yes

No

If yes, please provide the name or e-mail you have  
used on that questionnaire

\_\_\_\_\_

### Contact Data

Name : Mr. Jose Antonio Huertas

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Company/Organisation : Pellet Combustibles de la  
Mancha

Website (of the company or the APPR initiative) : http://www.peletsdelamancha.com/

Logo of the company : \_\_\_\_\_

Country : Spain



