

Value chains : Prime mover and Main Characteristics

- Stakeholder Type
- |   |  |
|---|--|
| <input type="checkbox"/> Farmer             | <input checked="" 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 type="checkbox"/> Pellet Producer    | <input type="checkbox"/> Biomass Supplier                |

Location of Prime Mover

Municipality : El Tejar

Latitude : 37.951779

Longitude : -4.453718



- Type of Residue used in value chain
- |   |   |                               |
|---|---|-------------------------------|
| <input checked="" type="checkbox"/> Pruning | <input type="checkbox"/> Plantation Removal | <input type="checkbox"/> Both |
|---|---|-------------------------------|
- Crop Species used in Value Chain
- |  |                                    |                                     |                                  |
|--|------------------------------------|-------------------------------------|----------------------------------|
| <input checked="" type="checkbox"/> olives | <input 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) 180

Typical APPR biomass production (tonnes/year) 225

Start Date of the APPR value chain (Month-Year) 2008











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 checked="" 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

OLEICOLA EL TEJAR NTRA. SRA DE ARACELI S.C.A. is a second degree cooperative made of 248 associated companies. Its main purpose was the wet olive pomace of the olive oil industry. In 2008 they started to develop a new business line. They acquired two parks for chipping and screening olive tree pruning and leaves. At the same time they were working in the adaptation of the boilers for these new products in collaboration with the Andalusian Energy Agency. The associated companies process the olives of around 60,000 farmers. One of its members, BIOMASA DE LA SUBBETICA S.L. is in charge of managing the activities related to the pruning, the pre-chipping, chipping and transorting the pruning to the power plants. The biomass generated by all its members is used in a agro-industrial complex of the cooperative for electricity production. These power plants are OLEICOLA AL TEJRA S.C.A., AGROENERGETICA DE BAENA, S.L., AGROENERGETICA DE PALENCIANA, S.L. and VETEJAR,S.L.

# Oleicola EL Tejar Ntra. Sra (El Tejar)

VALUE CHAIN ACTORS		Farmers	Farm cooperative / agro productive organization	Agro services Company	Techno-logistics services in agriculture	Biomass energy plant builder /dealer	Energy service company	Biomass consumer / energy user
VALUE CHAIN PROCESSES	APPR biomass producer	1						
	Harvesting & conditioning		2					
	Biomass 1 <sup>st</sup> haulage/ Transport		2					
	Pretreatment & Storage		2					
	Biomass further processing		2					
	Biomass transport		2					
	Energy conversion							3

- 1 Farmers
- 2 BIOMASA DE LA SUBBETICA (member of Oleicola EL Tejar Ntra. Sra.)
- 3 Farmers



## Fuel Specifications

Final form of Biomass prior to Exploitation

- Bales of branches  
 Hog fuel-shredded

- Wood chips  
 Pellets

Moisture content (%) :

25-30

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  
 power plants

- Industrial heating  
 Distributed heat networks

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

55

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

\_\_\_\_\_

