

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 type="checkbox"/> Pellet Producer | <input type="checkbox"/> Biomass Supplier |
| <input checked="" type="checkbox"/> Electric power generation plant | |

Location of Prime Mover

Municipality : Puente Genil

Latitude : 37.449671

Longitude : -4.811557



- Type of Residue used in value chain
- Pruning Plantation Removal 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) _____

Typical APPR biomass production (tonnes/year) 30000

Start Date of the APPR value chain (Month-Year) 2005

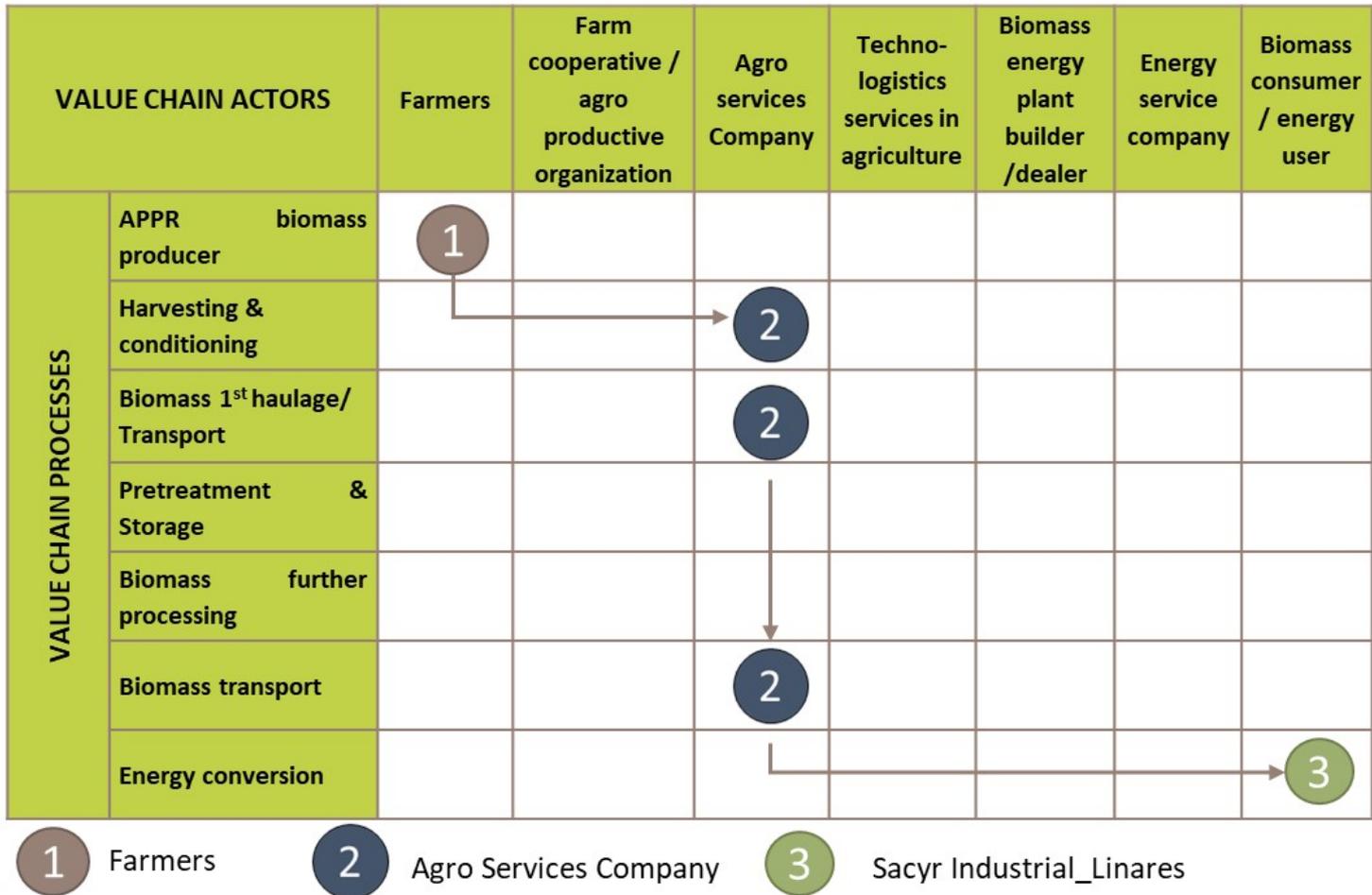
Factor Group	Description	Check the influence in success:(0)-Not relevant;(1)-May have influenced;(2)-Important for success;(3)It was crucial;(?)-Unknown					Check the 3 most crucial factors in WHOLE table
		0	1	2	3	?	
Logistics Chain	There were pre-existent collaborations established between farmers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

SACYR INDUSTRIAL is a of SACYR group company dedicated to exploit renewable energy plants among which are two power plants which are using biomass combustion: Biomosas de Puente Genil of 9.7 MW and Bioeléctrica de Linares of 15 MW. Initially,they had three of them but the sold one in 2011. The initiative of using biomass to generate electricity was the result of several factors among others: the environmental importance of adding value to this kind of residues; the easy availability to the prunings because the zone where they started this activity is the largest surface of olive trees in the world, even with a high percentage grown with localized irrigation that brings a high efficiency; the proximity to other forestry residues; the possibility of use existing companies dedicated to manage forestry and agricultural residues and, of course, to enhance the sustainability not only from the environmental point of view but also in economic terms and social terms increasing the manpower. These plants are currently consuming 220,000 tons of biomass, mainly olive pomace and olive pruning.

Sacyr Industrial_Puente Genil



Fuel Specifications

Final form of Biomass prior to Exploitation

- Bales of branches
 Hog fuel-shredded

- Wood chips
 Pellets

Moisture content (%) :

10-35%

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
 Electric power generation plant 9.7 MWe

- Industrial heating
 Distributed heat networks

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

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
 Agro-service company

- Farmer's community
 Municipality-public

Prices of fuels sold
to final consumers

Price of APPR biomass (€/t)

Pre-shredder From
24 (35 % moisture) to
37 €/t (10 % moisture)

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 : _____

Email : _____

Phone : _____

Company/Organisation : BIOMASAS DE PUENTE GENIL

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

Logo of the company : _____

Country : Spain

Pruning is delivered pre-shredded to the plant and then is shredded in the storage park of the plant with machinery owned by Sacyr Industrial

Purchase prices in our plants are being the same for several years and in the near future it is not expected they change.

Every year we consume more olive pruning instead of the olive pomace we usually consumed.

External link: www.europruning.eu (Deliverable report 5.1.)

<https://www.youtube.com/watch?v=6WMfpZ3l8Wk>





The logo for Sacyr Industrial features the word "sacyr" in a stylized, lowercase font. The letters "s", "a", and "c" are in a light blue color, while "y", "r", and the final "r" are in a dark blue color. Below "sacyr", the word "INDUSTRIAL" is written in a smaller, dark blue, uppercase sans-serif font.