

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"/> Group company | |

Location of Prime Mover

Municipality : Madrid

Latitude : 40.4483737

Longitude : -3.69196039999997



- 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) 2-3 t/ha

Start Date of the APPR value chain (Month-Year) 2006

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

Valoriza Energia O&M is a 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 Bioelectrica de Linares of 15 MW. These plants are currently consuming 220,000 tons of biomass, mainly olive pomace and olive pruning. In 2006 Biomosas de Puente Genil started to work as power plant using olive pomace as fuel and in 2008 the olive prunings was added to the biomass fuels. Bioelectrica de Linares started to work in 2010 using olive pruning as well. Olive prunings is directly received in the plants from more than 50 suppliers of biomass who shred and harvest it from the fields. This material is paid according to a previously fixed taxes taking into account the moisture content. Allocating the olive pruning to electricity generation the farmer could save around 30-40 €/ha, since instead of 50 €/ha that had cost to remove this residue, the supplier would pay 10-20€/ha to harvest, shredding and taking them to the biomass plant.

VALORIZA ENERGIA O&M (Madrid)

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 st haulage/ Transport							
	Pretreatment & Storage							
	Biomass further processing					2		
	Biomass transport					2		
	Energy conversion							3

- 1 Farmers
- 2 Trader of biomass
- 3 VALORIZA ENERGIA power plants

Fuel Specifications

Final form of Biomass prior to Exploitation

- Bales of branches
 Hog fuel-shredded

- Wood chips
 Pellets

Moisture content (%) :

20

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) :

22

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. Juan Espejo del Campo

Email : _____

Phone : _____

Company/Organisation : Valoriza Energia O&M

Website (of the company or the APPR initiative) : _____

Logo of the company : _____

Country : Spain



Valoriza Energía
Operación y Mantenimiento

BIOMASAS DE PUENTE GENIL, S.L. (9,7 MW)
Ctra. Puente Genil-Santavella (A-379), Km. 24
14500 Puente Genil (Córdoba)

BIOELECTRICA DE LINARES, S.L. (15 MW)
Ctra. Nacional 322 km.126
23700 Linares (Jaén)

**AGRICULTOR,
AHORRE 30-40 €/ha
DESTINANDO SU PODA DE OLIVAR A
BIOMASA CON FINES ENERGETICOS**

Central de compras: 957 028202 | 616 810 454
Delegación Linares: 616 584 744