

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"/> Agriculture Research Farm | |

Location of Prime Mover

Municipality : Przybroda

Latitude : 52.506760

Longitude : 16.607294



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

Total Plantation Area involved in the Value Chain (ha) 380

Typical APPR biomass production (tonnes/year) 100

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

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 checked="" 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

The Agriculture and Pomology Research Farm in Przybroda is about 380 hectares. Production orchard is mainly based on planted apple trees, pear trees, peaches, cherries and nuts. Annual fruit production variew between 600 and 700 tons. The fruit trees are pruned twice a year. The autumn prunings are harvested using baler machinery and stored ih hall, so the pruning drying has a place in a room. The baler is owned by a group of farmers. Currently there is no distribution biomass chain because all biomass will be used inside the farm. The farm is producer of biomass from pruning trees in orchards, as well as its the final consumer.

Agriculture and Pomology Research Farm (Przybroda)

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		1					
	Biomass 1 st haulage/ Transport		↓					
	Pretreatment & Storage		1					
	Biomass further processing		1					
	Biomass transport		↓					
	Energy conversion		1					

1

Agriculture and Pomology Research Farm

Fuel Specifications

Final form of Biomass prior to Exploitation

- Bales of branches
 Hog fuel-shredded

- Wood chips
 Pellets

Moisture content (%) :

38

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) :

0

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

