

Value chains : Prime mover and Main Characteristics

- Stakeholder Type
- | | |
|---|---|
| <input type="checkbox"/> Farmer | <input type="checkbox"/> Agrarian Cooperative |
| <input type="checkbox"/> Public Institution | <input checked="" 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 : Sersheim

Latitude : 48.964572

Longitude : 9.015064



- 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 type="checkbox"/> olives | <input type="checkbox"/> vineyards | <input checked="" type="checkbox"/> apples | <input checked="" 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) 43.2

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

The agricultural service supply of Mr. Timo Kirn offers a tree care service in the northwest area of Stuttgart , Sersheim, where some smallholders have their extensive fruit tree plantations. After the pruning period the prunings are left on the field and gathered beside the field for 1-5 months. Afterwards they are chipped beside the field and then transported to the local heating power plant or to nurseries to heat their greenhouses.

Timo's Kirn (Sersheim)

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 Timo's Kirn agro service
- 3 Power plant

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) :

20

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

- | | | |
|-------------------------------------|--|-------|
| <input type="checkbox"/> | Price of APPR biomass (€/t) | _____ |
| <input checked="" type="checkbox"/> | Price of regular woodchips (€/t) | 15 |
| <input type="checkbox"/> | Price of ENPLUS pellets (bulk-€/t) | _____ |
| <input type="checkbox"/> | 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. Timo Kirn

Email : _____

Phone : _____

Company/Organisation : Land-und Forstwirtschaftliches
Lohnunternehmen

Website (of the company or the APPR initiative) : https://www.goyellow.de/home/brennholz-
land-u-forstwirtschaftliches-
lohnunternehmen-timo-kirn-
sershe

Logo of the company : _____

Country : Germany

