

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"/> Power plant |   |

Location of Prime Mover

Municipality : Sant'Agata di Puglia

Latitude : 41.150760

Longitude : 15.380122



- 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) 30,000 - 50,000

Start Date of the APPR value chain (Month-Year) 2018











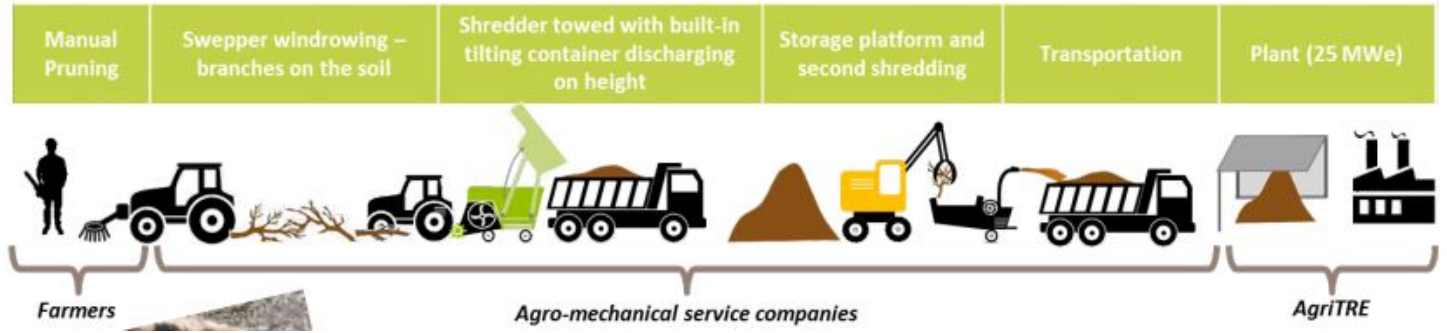
Factor Group	Description	Check the influence in success:(0)-Not relevant;(1)-May have influenced;(2)-Important for success;(3)It was crucial;(?)-Unknown					Check the 3 most crucial factors in WHOLE table
		0	1	2	3	?	
Logistics Chain	There were pre-existent collaborations established between farmers 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 checked="" 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 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"/>

Short summary of the initiative (<100 words)

Summary of the value chain

AgriTRE is an industrial company managing, since 2013, a 25 MWe power plant (80 MWth) mostly supplied with cereal straws. After the first five year of plant operation, the company has decided to modify the biomass mix supplied to the plant, by significantly increasing the amount of shredded pruning, up to a total maximum amount of 35 % (by energy contribution). The upstream components of the value chain are composed, by the most, by agro-services companies providing for the logistic operations and allowing for biomass supply to the bioenergy plant. Supply contracts are signed between AgriTRE and the agro-services companies in order to strictly define the quantities and the economic conditions of the trade, as well as the quality (with reference to moisture and exogeneous materials)

# Actors and Roles in Value Chain





## Fuel Specifications

Final form of Biomass prior to Exploitation

- Bales of branches  
 Hog fuel-shredded

- Wood chips  
 Pellets

Moisture content (%) :

21.1

Max Content of Ash (% a.r.) :

3.2

Min LHV (kj/kg a.r.) :

12.7

## Value Chain Details and Prices of fuels

End-users

- Self-consumption  
 Public-private buildings  
 Biomass to Market  
 Power production

- Industrial heating  
 Distributed heat networks

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

70

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

\_\_\_\_\_



