

Value chains : Prime mover and Main Characteristics

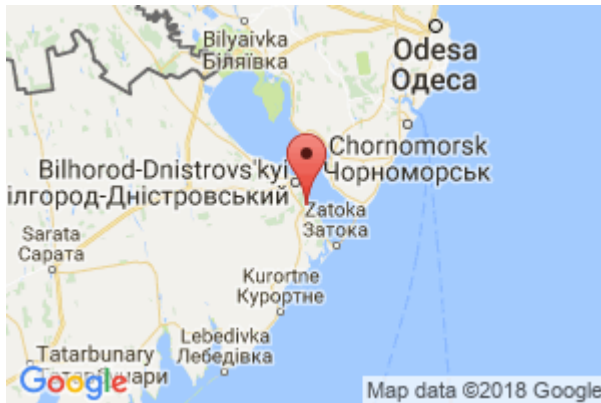
- Stakeholder Type
- |   |   |
|---|---|
| <input type="checkbox"/> Farmer             | <input type="checkbox"/> Agrarian Cooperative     |
| <input type="checkbox"/> Public Institution | <input type="checkbox"/> Agro-Services            |
| <input type="checkbox"/> Final Consumer     | <input type="checkbox"/> Farmer Association       |
| <input type="checkbox"/> ESCO               | <input checked="" type="checkbox"/> Agro Industry |
| <input type="checkbox"/> Pellet Producer    | <input type="checkbox"/> Biomass Supplier         |

Location of Prime Mover

Municipality : Shabo

Latitude : 46.143114

Longitude : 30.373665



- Type of Residue used in value chain
- Pruning       Plantation Removal       Both
- Crop Species used in Value Chain
- |                                     |   |                                     |                                  |
|-------------------------------------|---|-------------------------------------|----------------------------------|
| <input type="checkbox"/> olives     | <input checked="" 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) 1000

Typical APPR biomass production (tonnes/year) 1000 - 1500

Start Date of the APPR value chain (Month-Year) 7 / 2015











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 checked="" 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 type="checkbox"/>
	Private investment for entrepreneurs was incentivised	<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"/>	<input type="checkbox"/>	<input type="checkbox"/>

Short summary of the initiative (<100 words)

Summary of the value chain

APPR biomass from vineyard prunings is collected as hog fuel and used as input in a steam boiler of a local winery for steam production.

# ITC Shabo

VALUE CHAIN ACTORS		Farmers	Farm cooperative / agro productive organization	Agro machine builder /seller	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 <sup>st</sup> Haulage / Transport		1						
	Pre-treatment & storage		1						
	Biomass further processing		↓						
	Biomass transport		1						
	Energy conversion								2

1 Shabo Agrofim

2 ITC Shabo



## Fuel Specifications

Final form of Biomass prior to Exploitation

- Bales of branches  
 Hog fuel-shredded

- Wood chips  
 Pellets

Moisture content (%) :

25

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

4

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) :

10

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) 0

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- Price of regular woodchips (€/t) 

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- Price of ENPLUS pellets (bulk-€/t) 

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- Price of domestic heating gasoil (€/l) 

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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

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