

# Questionnaire for Value chains -Prunings and Plantation Removal

	Value chains :	Prime mover and Main (	Char	acteristics	
Stakeholder Type	Farmer Public Institution Final Consumer ESCO Pellet Producer	( ( (		Agrarian Cooperative Agro-Services Farmer Association Agro Industry Biomass Supplier	
Location of Prime Mover					
Municipality:	Zhurivskyi region				
Latitude :	50.446221				
Longitude :	31.671301				
Ворочутува Бобровиця  Вогусрії Вегедап' Бориспіль Березань	Pryluky urivka урівка Уаһотуп Яготин Мар data ©2019 Google				
Type of Residue used in value chain	<b>✓</b> Pruning	Plantation Remo	oval	Both	
Crop Species used in Value Chain	olives peaches cherries grapefruit	vineyards apricot oranges hazelnuts		apples nectarine tangerines chestnuts	pears plum lemons almonds
Total Plantation Area inv (ha)	olved in the Value Chain	560			
Typical APPR biomass p	roduction (tonnes/year)	204			
Start Date of the APPR va	alue chain (Month-Year)	April 2018			

#### Key success Factors in Value Chain

#### Keys of success

Select the key success factors of your value chain in scale 0-3. Then indicate the 3 most crucial factors.

Check as many as apply

Factor Description		N int	the inflot relev fluenced s;(3)It w	Check the 3 most crucial factors in WHOLE table			
		0	1	2	3	?	
ect	There was an important effort in determing the feasibility and planning prior starting the business				>		
Project	The implementation of the chain considered the target consumers and their quality requirements		>				
	Market was analysed, and contracts prepared prior start		<b>\</b>				
Product Quality	Biomass was labelled or certified according to existing standards	<b>✓</b>					
	The quality of the biomass product is object of an assurance process	<b>\</b>					
nity	Permanent crop plantations are quite extended. The use of the agrarian residues for biomass was regarded by community as quite beneficial		>				
Community	There was an intense information campaign to promote social acceptance	<b>✓</b>					
	Argarian residues utilisation for energy was subject of debate by policy makers and/or by social groups in months, or years before the investment was done	<b>√</b>					

Factor Group	Description <u>.</u>		success;(3)It was crucial;(?)-Unknown					
		0	1	2	3	?		
	There was already a mature market of biomass	<b>✓</b>						
	There was a shortage of usual biomass resources			>			<b>✓</b>	
Market	There was a high increase of biomass demand (e.g. new power plants opened, increase og household biomass heating)	>						
	The price of biomass locally rose, and made biomass residues of economic interest		>					
	Target biomass market was stable and secure	<b>\</b>						
l ties	There was a recent reconversion of a sector (mining, metal industry etc.) leading to a high need of re-orientate economic activities. Biomass was one of the targeted new economic activities	>						
Local Capacities	There was already service companies/persons with capacities to start new biomass chains on prunings/plantation removal	<b>✓</b>						
	There was a campaign of information for biomass procurement	<b>\</b>						
	Pruning and/or agricultural residues were quite an issue in the course	<b>✓</b>						

Factor Group	Description	N inf	ot releva luenced ccess;(3	uence ii ant;(1)-N ;(2)-Imp i)It was Jnknowi	/lay hav ortant f crucial;	e or	Check the 3 most crucial factors in WHOLE table
Pruning Management	The management of the pruning/plantation removal is recognised to be expensive. Farmers found pruning for energy a good idea			<u>∠</u>			
P <sub>r</sub>	There were already experiences in mobilisation/treatment of prunings/plantation removal (pilot experience etc.)			>			
	The high density of permanent crops plantations in the area			>			
Regulation	There is strict regulation making compulsory treatment/management of the residues	<b>&gt;</b>					
	Lobbying of stakeholder groups caused policy makers to promote changes in regulation	>					

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
	The subject of argarian residues for energy was subject of new supporting measures	0		2	3	?	
	Enviromental regulations placed funds for subsidising partly pruning/plantation removal collection	<b>✓</b>					
Support	The biomass consumption sector leading to pruning/plantation removal utilisation was subject of recent support for expansion	<b>√</b>					
	Availability of financial support (loan guarantees, green banks, etc.)	<b>✓</b>					
	There was a combined initiative supported for LIFE (or equicalent) programs (for GHG reduction, for improving competitiveness, etc.)	<b>▼</b>					
	uP_running support				>		<b>✓</b>

	There were published plans and/or roadmaps for biomass utilisation (including pruning/plantation removal utilisation)				
	There were clear objectives in mind of policy makers for utilisation of pruning or argarian residues				
ć	Existence of public initiative as pioneer in pruning/plantation removal utilisation leading to investment in public infrastructure (e.g. private/public consortium to use pruning for heating in public schools)	<			
Policy	There were special taxation for the pruning/biomass (or agricultural residue) utilisation	<			
	There was a public media campaign to boost utilisation of prunings/biomass (e.g. in common by various city councils, or various countries)	<			
	The use of pruning/plantation removal was integrated with other enviromental/public strategies (e.g. landscaping conservation of vineyar scenery)	<b>\</b>			
	There was a ban to burn agricultural residues by open fires			<b>✓</b>	

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	?	
tics ain	There were pre-existent collaborations established between farmers sector and biomass cosumers/traders				>		<b>\</b>
Logistics Chain	The introduction of new technologies (machine, handling systems, logistic chain) supported the implementation of new chains		>				
	Private investment for entepreneurs was incentivised	<b>\</b>					

#### Short summary of the initiative (<100 words)

Summary of the value chain

Hog fuel production in the existing mobile shredder and selling the obtained biomass to local consumers.

## Novooleksandrivske Farm

VAL	UE 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
	APPR biomass producer	1						
S	Harvesting & conditioning	1						
OCESSE	Biomass 1 <sup>st</sup> haulage/ Transport	1						
VALUE CHAIN PROCESSES	Pretreatment & Storage	1						
ALUECI	Biomass further processing							
>	Biomass transport	1						
	Energy conversion							2

1 Farmers

2 Novooleksandrivske Farm

	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.) :	2.3		
Min LHV (kj/kg a.r.) :	8.5		
	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): Storage options	On-farm storage Intermediate storage prior transporting to e	end use	er
	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 bioma Price of regular wood Price of ENPLUS pell Price of domestinc he	lchips (€/t) ets (bulk-€/t)	35
Have you filled the quest mechanized pruning/pla		<b>✓</b> Yes	□ No
If yes, please provide the used on that questionna	name or e-mail you have ire		
		Contact Data	
Name :		Volodymyz Ishchenk	KO
Name : Email :		Volodymyz Ishchenk	<u> </u>
		Volodymyz Ishchenk	KO
Email :		Volodymyz Ishchenk	
Email : Phone :			
Email : Phone : Company/Organisation :			
Email: Phone: Company/Organisation: Website (of the company)			



### Photos



