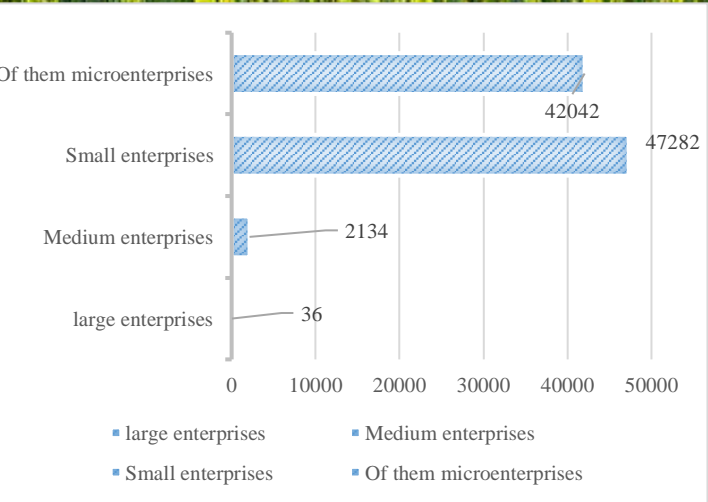


WHAT HAS BEEN DONE

- The components of biofuel production business development at the level of agricultural enterprises have been specified
- The current state and potential of using agricultural waste to ensure the energy autonomy of agricultural enterprises is studied
- A marketing analysis of the biofuel market was carried out and potential opportunities for participation in this economic activity of agricultural enterprises were determined
- A model of effective marketing of an agricultural enterprise producing biofuel has been developed
- An assessment of the efficiency of self-sufficiency of agricultural enterprises with biodiesel from oil crops was carried out
- A biodiesel production laboratory was created

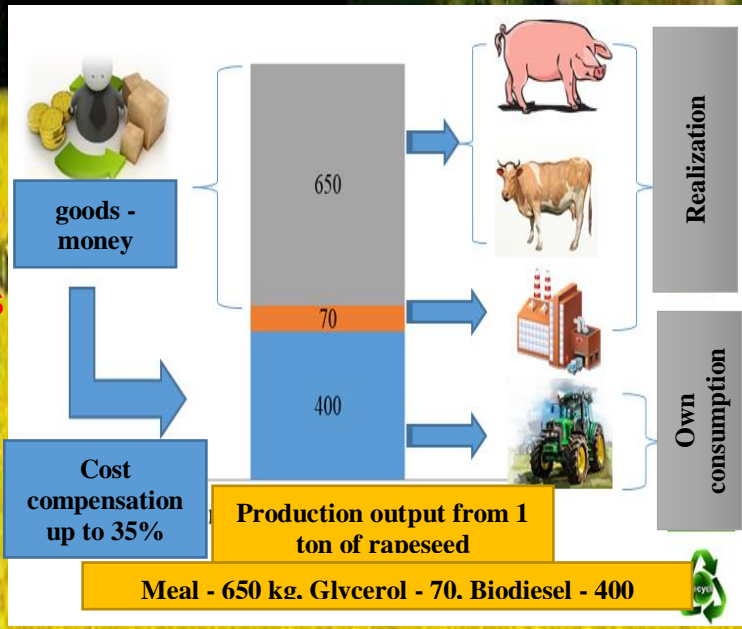
Description of potential consumers



The potential market is represented by 2,134 medium-sized agricultural enterprises and more than 89,000 small and micro enterprises in the agricultural sector.

Product description

Production of biodiesel fuel from own raw materials to meet the needs of agricultural enterprises with the sale of by-products in order to reduce the cost of fuel



Readiness level

Today, on the basis of the Scientific and Research Laboratory of Bioenergy of the Educational and Scientific Center of VNAU, the study and practical implementation of advanced domestic and international experience in the production of biodiesel is carried out, as well as consultations on the production and use of biofuel are provided to educational and research institutions of the region.



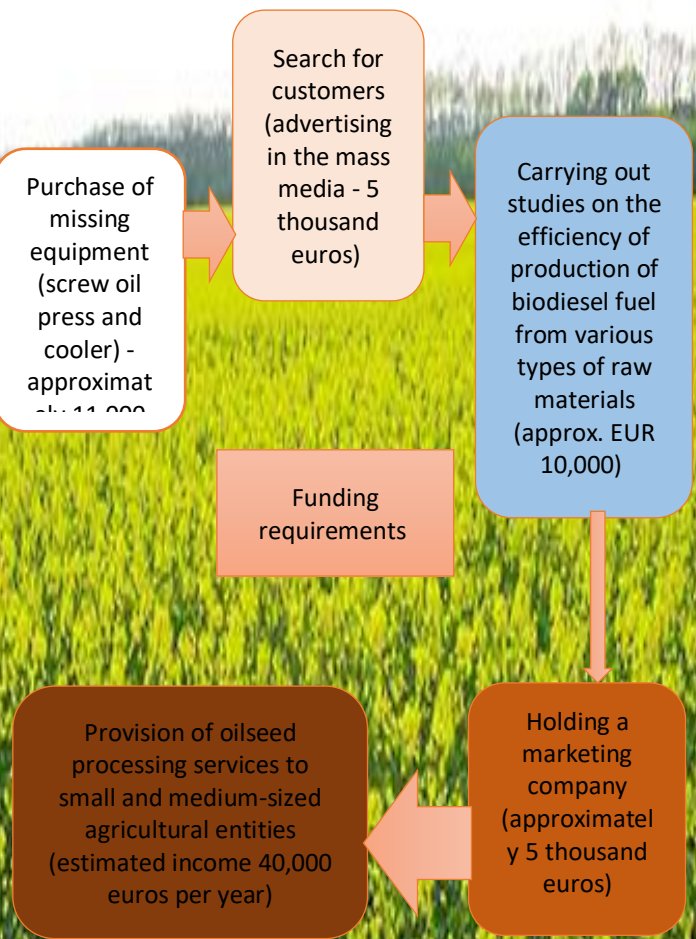
Vinnytsia National Agrarian University



Green Diesel



Biodiesel - clean production



Comparative economic efficiency of selling rapeseed and producing biodiesel from it in Ukraine, 2021

Indicators	Sale of 1 ton of rapeseed	
	domestic market	export
Full cost, UAH	6181,8	6181,8
Sale price, UAH	11684,4	10449
Profit, UAH	4968,2	5818,2
Rate of return, %	80,4	94,1
Production of biodiesel from 1 ton of rapeseed		
Costs for seed processing, UAH	1090,9	
Total costs, UAH	7372,7	
Output of biodiesel, l	400,0	
The price of 1 liter of biodiesel, UAH	23,0	
Total cost of biodiesel, UAH	9200,0	
Price of cake, UAH	3025,0	
Price of glycerin, UAH	2608,2	
Cost of manufactured products, UAH	14833,2	
Cost of 1 liter of biodiesel, UAH	18,18	
Profit, UAH	7560,5	
Rate of return, %	104,0	

PURPOSES

- provision of own fuel needs of agricultural
- ensure energy independence of the country
- To reduce the cost of biodiesel due to additional profit from the sale of production by-products

Problems solved by biodiesel

- economic – a reduction in the cost of agricultural products by 15-17% thanks to the use of biodiesel:
- energy - obtaining high-calorie fuel, ensuring the energy independence of the country;
- ecological - the use of ecologically clean fuel, which will reduce CO2 emissions into the environment
- financial - reduction of fuel purchase costs;
- social - creation of new jobs.

Yaroslav HONTARUK
PhD in Economics, manager

Lyudmyla PRONKO
PhD in Economics, project manager

Anastasia PRONKO
student, PR manager

Anna LEGOIDA
student, economist

Ukraine, 21008, Vinnytsia, st. Sonyachna, 3
 email: rector@vsau.org, office@vsau.org
<https://vsau.org>
Ludmyla PRONKO – project manager
 +38 (0432) 55-60-95

Our mission: Clean environment.
 Our goals: Energy independence.
 Our values: Happy future of the nation.