Project name,	AP13268757 - Organizational and economic mechanisms for the
IRN	introduction of bioenergy for the sustainable development of rural areas of
IKI	the Republic of Kazakhstan
Completion date	12.05.2022-31.12.2024
Project Project	Tasmaganbetov Aslan Bukimbayevich, PhD, c.e.s., associated professor
supervisor	Tushiaganoctov Tishan Bukimbayevien, Tinb, e.e.s., associated professor
Report	Currently, the success of national reforms directly depends on the
Report	effectiveness, adaptability, and focus of the country on the practical
	implementation of Sustainable Development Goals.
	In 2015, the States that are members of the United Nations signed the
	document "Transformation of our World: the Agenda for Sustainable
	Development for the period up to 2030" ("Agenda 2030"), which reflects
	17 Sustainable Development Goals as benchmarks for the development of
	the world community for the next 15 years [1].
	According to Goal 7. Affordable and clean energy, all citizens should
	have universal access to affordable, reliable, sustainable and modern
	energy sources.
	The scientific novelty and prospects of this project consist in the
	development of scientific and practical provisions on the use of bioenergy
	to improve the social and living conditions of citizens in rural areas.
	Renewable energy plays an increasingly important role in Kazakhstan's
	energy balances due to the depletion of oil and coal resources. The share of
	renewable energy sources in the total volume of electricity production should be 6% by 2025 according to the National Development Plan of the
	country of Kazakhstan until 2025 [2], 10% by 2030 and 50% in 2050 in
	accordance with the Concept of the country's transition to a "green
	economy" [3].
	To fulfill this strategic goal, it is possible to use the potential of
	agriculture, since Kazakhstan is a major producer of agricultural products,
	as a result of which organic waste is generated, which can be used as a
	primary resource for the production of biogas, electric and thermal energy.
	The use of bioenergy generation technology contributes to providing
	residents of remote rural settlements with local uninterrupted electricity
	and heat supply for household purposes. In the production of biogas and its
	further use, not only the growing demand of the population for additional
	energy sources is satisfied, but sometimes the very need for fuel and energy
	that are absent in certain territories. With the introduction of bioenergy,
	rural areas will receive the following economic benefits: the energy supply
	of plots with different population densities is aligned; transportation and
	the cost of delivering fuel to hard-to-reach villages are being reduced; additional sources of fuel competing with other types of fuel and energy
	are emerging; autonomous energy sources are emerging; the security of the
	energy system is improving.
Purpose	The aim of the project is to analyze the organizational and economic
1	mechanism of the introduction of bioenergy for the sustainable
	development of rural areas
Expected results	1. Assessment of the current state of bioenergy development in rural areas
	of the Republic of Kazakhstan.
	2. Classification of factors according to the degree of influence on the
	development of bioenergy in rural areas.
	3. Systematization of state support tools for the introduction of renewable
	energy sources.

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	4. Criteria for assessing the technical and economic efficiency of biogas
	plants.
	5. A set of organizational and economic levers for the functioning of the
	information center for the application of bioenergy technologies.
	6. An algorithm for the introduction of biogas plants at agricultural
	enterprises for the production of bioenergy.
Research group	Main researcher: Tasmaganbetov Aslan, PhD, c.e.s., associated professor,
Research group	
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	0003-0636-7498
	Consultant: Yessengeldin Bauyrzhan, d.e.s., professor, H index – 4,
	Scopus ID: 55683958400, ORCID ID: https://orcid.org/0000-0003-4155-
	3616
D III 41 1	
Publications in	1. Қазақстанның тұрақты даму мақсатына қол жеткізудегі
scientific	жаңартылатын энергия көздерінің рөлі // Вестник Карагандинского
publications	университета им. А. Букетова. – Караганды, 2022. – №2. – С. 313-320
1	https://economy-vestnik.ksu.kz/apart/2022-106-2/27
	2. Қазақстанның ауылдық аумақтарында биоэнергияның дамуына
	әсер ететін әлеуметтік-экономикалық факторлар // Вестник
	Казахского университета экономики, финансов и международной
	торговли. – Астана, 2022. – №3. – С. 153-159
	http://vestnik.kuef.kz/web/uploads/file-vestnik/e3fa2556b82b4260e
	<u>0702a802f27a29e</u>