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RESOLUTION OF ENERGY PROBLEMS OF LOCAL SELF GOVERNANCE UNDER THE CONDITIONS OF ADMINISTRATIVE REFORM IN UKRAINE

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KEYWORDS	SUMMARY
decentralization,	The first steps of decentralization in Ukraine are described in the article. State legislative initiatives
local self-government,	to enhance local self-government, issues and achievements of voluntary united local communities are
local community,	described in the article. it is noted that for the purpose of revenues to local budgets it is appropriate to carry
renewable energy,	out energy saving measures. Wide implementation of renewable energy sources, including biomass,
energy willow,	is offered in the article. it is noted that Khmelnytskyi region has favorable natural and economic conditions
biomass,	for the implementation of energy willow plantations as local renewable energy sources. on the example
Khmelnytskyi region.	of a particular local community there is reflected an actual use of natural gas and solid fuel during
	the heating season of 2016-2017 and possibility of creating energy willow plantations and use of chopped
	wood for heating of social sphere premises are grounded

1. INTRODUCTION

In Ukraine the right of citizens to solve issues of local importance is guaranteed by the state and is the real ability of local communities [Konsty`tuciya Ukrayiny` 1996] that in most of them remain unfulfilled. Self-sufficient and strong local communities are the basis of the local and regional development of any country. it is also a feature of quality and efficiency of local self-government, less bureaucratic to facilitate the development of local democracy, supporting the initiatives of citizens. the main reasons for inadequate development of local self-government in Ukraine are economic (lack of material and financial resources), political (lack of real self-sufficient local communities with appropriate formation of local budgets), legal (lack of legal support for the organization and functioning of local self-government, its relationship with the community members, community organizations, businesses and institutions), psychological (existence of the old stereotypes concerning the local self-government in the minds of citizens).

In the development of reforms towards decentralization Ukraine uses European Charter of Local Self-Government [Yevropejs'ka hartiya 1985; Zakon Ukrayiny' №452 /

97 1997] and European experience. Power decentralization is a complex process that involves diverse aspects most important of which are the budget and fiscal decentralization, the possibility of forming independent community budgets. Specific changes in the direction of decentralization in Ukraine appeared after the adoption of the basic legal documents for improving and strengthening the independence of local communities by the Verkhovna Rada of Ukraine in 2014 [Zakon Ukrayiny` №1508-18 2014]. Especially important was the approval of the Cabinet of Ministers of Ukraine the Concept of reforming the local government and the territorial government in Ukraine [Rozporyadzhennya KMU №333 2014] and the action plan for its implementation [Rozporyadzhennya KMU №591 2014 and №688 2016]. Adoption of the Laws of Ukraine on Amendments to the Tax Code and the Budget Code [Zakon Ukrayiny` №1789-19 №1797-19 2016 and 2017] became a stimulus for communities to unite and increase their self-sufficiency.

Since 2015 with the support of the US Agency for International Development, the Council of Europe and some other countries of the world in Ukraine there are real changes in local self-government, which began with local elections in municipalities (October) and the creation of the first 159 voluntary united local communities (ULC) that function since the 1st January 2016. in Khmelnytskyi region 231 of 605 communities (38.2%) or 531 of 1451 settlements (36.6%) have united. There were established 22 local communities (ULC) with an area of 428,000 hectares [Yaczkovs`ky`j S.V. i in. 2016].

Creation of conditions for communities to exist with a full value, formation of adequate legal and economic framework for their development are the main priorities of the planned changes. During one and a half year of existence of voluntary united local communities there have taken place significant changes in their financial situation and therefore development opportunities. Planned indicators of local budgeting on the results of 2016 were exceeded by all communities, which increased their incomes per capita nearly 3 times.

During the first six months of 2016 the state granted targeted subsidies for united local communities of the region in amount 358 million UAH, of which 72 million UAH are intended to form the infrastructure. Also in 2016 by the state there was allocated 1 billion UAH to infrastructure forming for 159 ULC, which was distributed with the regard to the number of rural residents and area. Khmelnytskyi region received 216.4 million UAH [Yaczkovs`ky`j S.V. i in. 2016]. This allowed to implement a number of important for communities infrastructure projects: improvement of water supply by constructing artesian wells, water pipelines; reconstruction of sewage treatment plants; the purchase of special

equipment (including fire engines); overhaul of roads; capital repairs of schools, pre-schools, administrative offices; street lighting. at the same time energy efficiency projects were almost not implemented.

The well-known problem of Ukraine's energy dependence is caused by the high energy intensity of different branches of the national economy and overspending of energy by municipal objects and people. the state has enormous renewable energy sources, but the development of alternative energy sources is growing very weakly. According to the State Statistics in Ukraine in 2013 the share of renewable energy in gross final use was 3.62%, including biomass - 2.28% (2.7 million tons of conventional fuel). in 2014 "National action plan on renewable energy by 2020" was adopted in Ukraine[Rozporyadzhennya KMU $N_{\rm P}$ 902-r 2014]. According to this plan the share of renewable energy sources in the final use should be 11% and biomass of them should be 85%. but it is clear already now that this plan will fail because there are no effective mechanisms of the state support for financing projects, and also just a few projects are proposed by local communities.

Among the fifteen ULC of Khmelnytskyi region only in three implementation of energy saving technologies, switch over of boiler houses to alternative fuels, modernization of systems of consumption of thermal energy are declared for the future. Only in one of ULC (village Chornyy Ostriv of Khmelnytskyi region) owing to local agricultural firm there was planned implementation of technologies using renewable energy sources, "to promote the development of production and use of biofuels, the creation of local raw materials for biofuel production".

There are various sources of renewable energy, biomass in Ukraine is preferred. However, in conditions of intensive farming, with a constant decrease in soil fertility, it is inappropriate to alienate a significant number of plant residues after harvesting (according to various estimates, it is possible to take from fields 10-30% of the biomass after harvesting). but studies of the authors showed that the current structure of crop areas and yield of field crops and the lack of livestock industry in Khmelnytskyi region are making insufficient plowing even of all plant remains to ensure non-deficit balance of humus [Vahnyak, Kozhevnikova 2014]. Therefore, biomass from energy crops should be preferred.

Energy willow has its biological and technological features that allow it to be considered as the main energy crop for Khmelnytskyi region. the conditions of the region are suitable for this crop both from the point of view of natural resources (climate, soils, hydrology of the territory) and economic resources (inefficient use of other land rather than arable land, environmental problems related to the intensive agricultural sector and high plowing of the territory, availability of equipment at agricultural enterprises, which can be adapted for the technology of crop cultivating, experience of using alternative fuel based on chopped wood, etc.). in view of the territorial diversity of natural and economic conditions, we consider the raise of energy crops to be only as a local resource for improving the economic activity of local communities, local enterprises, etc.

The northern part of the region is situated in Polissya (forest zone), the rest in the western forest-steppe zone. the moisture content of the territory, excepting a number of recent years, is sufficient. According to a comprehensive, qualitative land evaluation (100 point scale), which includes fertility indices, pollution level, erosion, hydromorphism and climatic conditions, the soils of the arable land in Khmelnytskyi region belong to the following groups (Table 1). in modern conditions, the agrarian sector of the economy in Ukraine is one of the main ones that fills the budget and is strategically important. Therefore, the most fertile soils should be used to grow the main field and fruit crops, and it is expedient to use low-quality soils, not higher than 40 points, for energy willow. the area of such soils in the region is 51.6 thousand hectares, but they also include eroded lands, which moisture content may not be sufficient for energy willow. Among the forest-steppe districts of the region, the soil of low quality is found to be from 1.1% in the relatively flat Teofilpol district to 45-53% in Letychiv, Derazhnya and Nova Ushitsya districts with difficult terrain.

Land quality	Category	Points	Area, thousands of hectares	% of arable land
37 1 1	1	91-100		
Very high	2	81-90		
	3	71-80	8,0	0,9
High	4	61-70	107,7	11,6
Increased	5	51-60	308,7	33,2
Middle	6	41-50	294,1	31,6
Low	7	31-40	159,4	17,1
Veryley	8	21-30	49,5	5,3
Very low	9	11-20	2,1	0,3

Tab. 1. Qualitative estimation of the arable land of Khmelnytskyi region [Gavry`lyuk i in.2010]

Different processes of soil degradation according to Krupennykov's classification [Krupenny`kov 2008], which are the cause of poor quality of land, appear in the districts of the region. in this case, there appears their distinct geographical distribution. Processes of chemical (dehumidification, decalcification, worsening nutritional regime, secondary acidification) and physical degradation (loss of structure, compaction) appear almost

on the entire arable land, physical - hydrogenous - mainly in the southern and eastern parts (water erosion), northern (waterlogging) [Vahnyak, Kozhevnikova 2014].

However, it is possible to use other lands, for example, hayfields and pastures, some of which are located on periodically (temporary) or permanently waterlogged soils. Soils with sufficient moisture reserves should be preferred when placing energy willow plantations, especially considering the current trend of global warming and more frequent droughts.

Table 2 shows those agro-industrial groups of soils of the region that have genetic signs of overflow. Predominant among them are fluvisols, histosols and pheozems [Pol`chy`na and Vahnyak 2012], the main arrays of which are confined to a particular geographic environment. Totally in the region there are 60,8 thousand hectares (4,8%) of meadow and marsh soils (permanently waterlogged) [Gavry`lyuk i Vahnyak 2014]. in the forest-steppe part of the region, their area occupy from 0.7 thousand hectares (1.0%) in Dunaivtsi district to 5.2 thousand hectares (6.3%) in Volochysk district.

Soil groups in the classifications			
Nomenclature list of soils of Ukraine	World Reference Base for Soil Resources (WRB) [FAO 2006]	Territorial placement in the region	
Clear gray and gray forest ashed loam, gleyic and surface-gleyic	Pheozemsendogleyic, gleyic, luvic	Forest-steppe part, mainly southeastern	
Dark gray and chernozems ashed loam, gleyic and surface-gleyic	Pheozemsendogleyic, gleyic, luvic		
Meadow-marsh, mud-marsh and peat-marsh	Fluvisols gleyic	Locally across the region	
Peat-marsh and shallow peatlands	Histosols	Preferably, in Polissya part, locally everywhere	
Medium and deep peatlands medium and strongly decomposed	Histosols		
Meadow-chernozem loam and gleyic	Umbrisols gleyic Chernozems luvic	Locally in depressions of the forest-steppe part	
Turf shallow and deep gleyic and loam	Arenosols mollic, haplic Gleysols umbric, luvic	Preferably Polissya, rarely in the south	
Alluvial	Fluvisols gleyic Umbrisols gleyic	Floodplains and terraces of rivers	

Tab. 2. Distribution of waterlogged soils in Khmelnytskyi region

In different united territorial communities there is a different soil cover structure by the suitability for high efficiency of energy willow plantations. For example, in Berezdiv ULC of Slavuta district there are relatively large areas of histosols, in Medzhybizh ULC of Letychiv district there are large areas of fluvisols due to placement in the lowland area, in the Kolybaivka ULC of Kamyanets-Podilskyi district glued varieties of pheozems (bedded with waterproof clay) are the predominant resources for energy willow. It should also be noted that the region has a relatively large territory for a natural reserve, which is one of Europe's largest National Natural Park "Podilsky Tovtry". Therefore, placement of energy willow plantations in the park's economic zone and other reserves will increase the effectiveness of preserving natural landscapes and biodiversity, and increasing the ecological stability of landscapes. This is very important for the protection of wetlands, restrictions on the intensive use of land near water bodies, increasing erosion stability of landscapes, regulation of water regime of territories.

On the example of Kolybaivka UTC in Kamyanets-Podilskyi district, it is possible to understand the problem of the need to preserve energy sources and to increase energy efficiency (Table 3). the largest consumers of gas are the school and village council in the village Kolybaivka, of coal and firewood - other schools and kindergartens. the cost of used gas and solid fuels is different – 2707.1 thousand UAH were spent on the purchase of gas, 277.3 thousand UAH were spent for coal and firewood.

Objects	Heated area, sq. m	Type of fuel	Type of boiler	Spent on heating in 2016-2017	Cost of heating, thousand UAH			
Schools								
village Khodorivtsi	1291	coal	Calavi 130	52 tons	178,8			
village Kolybaivka	1002	gas	modular boiler	19,5 thousand m ³	173,2			
village Ostrivchany	598	coal	Cadvis	11 tons	38,8			
village Knyahynyn	298	coal	stove heating (6 pc.)	6 tons	20,3			
Kindergartens								
village Khodorivtsi	210	gas	Convectors	9.8 thousand m ³	87.0			
village Kolybaivka	113	gas	Convectors	4.8 thousand m ³	42.7			
village Ostrivchany	186	coal	Calavi	9,3 tons	31,5			
village Knyahynyn	168	electricity	Dnipro	22.5 MWt	50.5			
	Administrative buildings							
Village council	867	gas	Convectors (14 pc.)	264.6 thousand m ³	234.5			
Post offices (4 departments)	62	gas	Convectors (4 pc.)	3,3 thousand m ³	29,2			
	34	coal	stove heating(2 pc.)	1,7 tons	5,8			
Medical establishments	outpatient clinic, medical center	gas	Convectors	2,1 thousand m ³	18,6			
	2 medical centers	coal	stove heating(2 pc.)	1,8 tons	6,1			
Library		gas	Convector	1,32 thousand m ³	10,8			
Clubs	Periodically are heated by the stove heating							

Tab.3. the actual use of fuel for heating of objects of social sphere in the heating season 2016-2017in Kolybaivka UTC in Kamyanets-Podilskyi district

Notes. 1. the service of boilers and oven by operators of ovens is not taken into account. 2. the actual price of natural gas was 8862 UAH per1000 m³, coal - 3390 UAH \cdot t¹.

In our opinion, the main arguments for the use of energy willow as an alternative source of energy specifically for the Kolybaivka territorial community are as follows.

- 1. on the territory of the UTC there are 306.9 hectares of reserve land, 550.6 hectares of land stock. the communal property has 245.5 hectares of land. in the community, it is possible to implement the most economically advantageous closed cycle in the cultivation of biodiesel and its use (processing) [Yaczkovs`ky`j S.V. i in. 2016].
- 2. Agricultural enterprises on the territory of communities own only arable land (5765 hectares), they have no other land. Considering the specialization of farms (field crop production), it is impossible to count on their active participation in the laying of willow plantations. Relatively low, as for chernozems, the organic matter content in arable soils (at the level of 2,18-3,42) causes the need for planting residues to be halved, and not to use them as biofuels. However, they can provide technical assistance, for example, covered canopies for storing chopped wood and its final drying.
- 3. Along with this, on the territory of the community 68 people cultivate the land with total area of about 160 hectares on their own. Among them 16 families own land plots from 2 to 8 hectares (total 62 hectares). the sole commodity producers have 12 tractors, 2 trucks, 1 combine. the efficiency of their production is extremely low, therefore some of them are ready to co-operate, including for the implementation of new projects.
- 4. on the territory of the community there are insufficiently fertile and difficult to use periodically waterlogged gleyed types of gray forest soils, suitable for growing energy willow.
- 5. in UTC there is a placement of social facilities in settlements (educational, cultural, medical facilities), which allows them to be combined into a single heating network from one boiler house, to modernize the heat transfer to the premises.
- 6. the UTC territory is fully included in the National Natural Park "Podilsky Tovtry", which imposes certain restrictions on the use of natural resources and necessitates the implementation of environmental projects. the cultivation of energy willow has an ecological orientation. Also, for the community and for the tourist city of Kamyanets-Podilskyi, some nuisances create an unpleasant smell from the fields of the local distillery. Growing willow in these fields would obviously contribute to a partial resolution of the problem.
- 7. the region has an experience in growing willow and an experience of using wood chips for heating. Municipal enterprise of the city of Kamyanets-Podilskyi uses

a boiler-house on chopped wood and pellets, own raw material base is created. in the neighboring Ivano-Frankivsk, Lviv, and Volyn regions there are firms that grow and sell willow seedlings with a relatively low cost, provide services for planting and growing plantations. the company "Salix energy" in Volyn region grows Swedish energy willow on an area of 1.5 thousand hectares and provides the heat supply for the State District Administration, department of education, schools, kindergarten, museum, district hospital.

8. in Ukraine, there is, albeit an imperfect, market of equipment of various capacity for combustion of chopped wood of willow of different humidity. the cost of boilers is available to the community budget.

Taking into account volumes and cost of consumption of gas and solid fuel by objects of social sphere, cultivation and use of energy willow for heating of premises is economically expedient. First of all, it should be noted that the cost of 1 GJ of energy received from natural gas combustion in Ukraine is 0.097 UAH, coal - 0.054 UAH, and crushed wood of energy willow - only 0.007 UAH. [Lopushniak 2016]. If we consider the productivity of an energy willow plantation at the level of 10 odt with a lower heat of combustion of 18.5 GJ•t-1, then 1 hectare of willow will provide an output of 185 GJ•t-1 per year [Py`rikov 2016]. and this is equivalent to 5.18 thousand m3 of natural gas (combustion heat 35.88 GJ•1000 m-3) or 7.11 tons of coal (combustion heat 26 GJ•t-1). Accordingly, the cost of gas equivalent to the energy of 1 hectare of willow is 45.7 thousand UAH, and the cost of coal at actual prices as for the heating season 2016-2017 is 24.1 thousand UAH. it should be noted that for the next heating season in the budget of the local community, the price of coal is set at 3600 UAH•t-1, and it is expected to be higher. in this case, the project's efficiency increases.

The cost of cultivating energy willow is, according to various estimates, from 4.7 - 7.7 thousand UAH•ha-1 [Lopushnyak, Gry`czulyak 2016] up to 7-8 thousand UAH [Py`rikov 2016]. However, taking into account the dynamics of prices in Ukraine, according to our calculations, the cost is 11-13,5 thousand UAH•ha-1 (taking into account the cost of seedlings, technological operations of planting, caring for plantation, harvesting, transportation, crushing and storage of crushed wood). the cost of one ton of crushed wood is from 190 to 220 UAH•t-1. Therefore, the replacement of natural gas gives it an effect of about 32 thousand UAH per hectare of plantation, and coal - about 11 thousand UAH.

The need for an area of willow plantation is 70-80 hectares for the complete replacement of natural gas and solid fuels in the united territorial community, which frees

up to 2 billion UAH in the budget. Taking into account the length of use of plantations of energy willow (25-30 years), its implementation in the community is perspective.

2. CONCLUSIONS

Ukraine has established a regulatory framework for administrative and territorial reform. the processes of decentralization of power in Ukraine contribute to the autonomy of local communities and call for the search for effective projects to improve their economic situation. Implementation of the production of chopped wood of energy willow in local communities is expedient in terms of increasing the efficiency of the use of natural resources and saving budget funds for the heating of objects of social sphere. Natural and economic conditions are favorable for the implementation of energy willow plantations and the use of its biomass for the production of heat. Replacement by the crushed wood of energy willow of 305.4 thousand m3 of natural gas and 81.8 tons of coal in a specific territorial community frees about 2 billion UAH of budget funds for the year.

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