

## JOINT SLOVAKIA-HUNGARY-UKRAINE PROJECT:

### **„STUDY ON COMPLEX BIOMASS TREATMENT IN COMMON BORDER REGION**

**HU-SK-UA**  
**(study on feasibility)”**

The present project is a cross-border project financed by the European Commission in the framework of INTERREG IIIA Neighbourhood Programme Hungary – Slovakia – Ukraine 2004-2006 and jointly implemented by the partners of three border countries, such as Ukraine, Slovakia and Hungary.

#### **Project partners:**

From the Slovak part the project is implemented by REVIC n.o. – **non-profit organization “REGIONAL EDUCATION AND INFORMATION CENTRE”, Prešov** – that acts as a lead project partner and represents the interests of Prešov and Košice self-governing regions (the east of Slovakia).

From the Hungarian part the project is implemented by **Zempplen development association foundation** that represents Borsod-Abaúj-Zemplén and Szabolc-Szatmár-Bereg regions (the north-east of Hungary).

From the Ukrainian part the project is implemented by the **Agency of Regional Development and Cross-Border Co-operation „Transcarpathia”** that represents Zakarpatska oblast (the west of Ukraine).

#### **Project objectives:**

The present project is aimed at studying the possibilities of renewable energy sources, i.e. biomass, development and treatment as well as strengthening cross-border initiatives on renewable energy sources' treatment in view of biomass treatment in joint border region Hungary-Slovakia-Ukraine.

The biomass is formed by organic substances of plant and animal origin (timber, timber waste as well as woodworking industry waste, straw, plant waste of farm production, specially cultivated agricultural crops, pus etc.). It is also an organic part of hard household waste, which is a result of people's day-to-day activity.

At the present time the biomass is widely used as a renewable and clean energy source. Its treatment does not cause the intensification of global greenhouse effect and also gives the opportunities to use additional energy potential of the region more efficiently.

The present project is aimed at studying the problems of renewable sources' treatment in Zakarpatska oblast **through implementation of two main objectives of the project:**

- a) study of the possibilities of nonconventional and renewable power sources, i.e. biomass, development in the target region;
- b) development and implementation of the joint Conception on biomass treatment in border region Hungary – Slovakia – Ukraine.

#### **Structure of the Conception:**

Conception on biomass treatment in border region Hungary – Slovakia – Ukraine should contain 4 following parts:

- General part
- Technical part

- **Financial and economic part**

- **Final part**

The Conception's parts should reveal the problems of renewable energy sources usage first of all in Zakarpattya as well as in common border region Hungary – Slovakia – Ukraine as thorough as possible. It is understandable in the view of the contents of parts' paragraphs:

- **General part**

- Social and economic nature;
- Supply and demand and for project results.

- **Technical part**

- Technological alternatives and production plan;
- Human resources;
- Localization;
- Implementation.

- **Financial and economic part**

- Financial analysis;
- Analysis of social and economic costs as well as revenues;
- Risks analysis.

- **Final part**

- Summarizing project results related to the oblast as well as to the cross-border region;
- Recommendations on biomass treatment on the territory of Zakarpatska oblast.

**Project successful implementation will contribute to:**

- lowering the emission weight of environment by making use of renewable energy resources;
- increasing the generation of additional energy recourses per capita due to renewable energy sources treatment;
- forming the positive public opinion on possibilities of renewable energy sources treatment;
- enforcing the cross-border cooperation in biomass usage;
- improving the cross-border co-ordination of the environment and natural resources protection;
- increasing the level of public awareness of renewable energy sources as well as of popularization of economic usage of the above mentioned energy source;
- creating the basic background for possible investments in the region;
- enforcing the sustainable development of the areas that are economically and energetically sensitive.

## **Duration and phases of the project**

The present project is expected to be implemented during 24 months. It can be divided into five blocks of activities. The each block is finalized by interim summarizing through carrying out the information and practical seminars.

**The first block of activities** – includes a number of preparatory actions aimed at further successful and efficient implementation of the project. They are as follows:

- creating the conditions for project team and experts' activity;

- adhering to the necessary legal requirements of the Law of Ukraine on activity envisaged in the framework of the project (project registration, concluding of the relevant agreements etc);
- presenting the project and cross-border partners to local publicity of Zakarpatska oblast during the Initial Conference of the project;
- starting-up collecting and processing the analytic data necessary to develop the Conception of biomass treatment in the target region;
- preparing preliminary SWOT-analysis on the condition of biomass treatment in Zakarpattya;
- holding the first information and practical seminar of the project.

The first block of activities will be finalized by reviewing and summarizing materials of the study. In its framework there will be agreed common methods of the Conception development, prepared conclusions on the basis of preliminary S.W.O.T.-analysis, determined problems and priorities of the specific region in the sphere of biomass treatment as well as established working groups of the project according to the determined priorities.

**The second block of activities** envisages carrying out the following actions:

- additional data collecting in view of determined priorities;
- specifying the SWOT-analysis and forming its final version;
- carrying out the preliminary expertise as well as technical, financial and legal analysis of the problem of renewable energy sources' usage in the region;
- holding the seminar on results of the second block of activities.

**The third block of activities**, as well as the second one, includes active work and co-operation of ARD "Transcarpathia" with representatives of project target groups in the development of the Conception of biomass treatment, i.e. with authorities, scientists, specialists in forestry and agriculture, representatives of ecological and non-governmental organizations as well as with representatives of commercial sector. The present block envisages:

- discussing the current project achievements with representatives of target groups;
- analyzing, studying and processing the remarks of target groups' representatives;
- summarizing the results of activity with target groups as well as presenting the results of co-operation at the third information and practical project seminar.

**The fourth block of activities** envisages carrying out the following activities:

- preparing the draft Conception on biomass treatment taking into account all remarks and proposals that were expressed preliminary;
- presenting the draft Conception as well as discussing its weaknesses with the publicity;
- developing and presenting the project of final version of the Conception in the cause of the fourth information and practical project seminar.

**The fifth block of activities** envisages promoting the Conception of biomass treatment developed in the cause of the project at regional and national levels as well as drawing up and signing the multilateral agreement on cooperation among organizations involved into the implementation of the Conception on renewable energy sources' treatment. There will be also published all results of studies carried out during the project implementation as well as given recommendations on biomass treatment in Zakarpatska oblast.

## **The project team**

The project is implemented on the territory of Zakarpatska oblast by the team of the Agency of Regional Development and Cross-border Co-operation “Transcarpathia”:

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The external experts as well as specialists in relevant spheres take also part in project implementation on the territory of Ukraine.



No	Actions	Months																							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	Project inception phase (project registration, fulfilment of legal procedures related to the start of the project etc.)	█																							
	Preparation of the project Initial Conference in Ukraine, Uzhhorod	█	█																						
	Holding the Initial Conference		█																						
	Collecting the analytical data		█	█	█	█																			
	Processing the analytical data		█	█	█	█																			
	Exchanging of information with foreign partners		█	█	█	█																			
	Preparing the first project seminar				█	█																			
	Holding the first seminar					█																			
4	Preparing Final and General part as well as working draft of the Conception												█	█	█	█	█								
	Preparation of the fourth project seminar												█	█	█	█	█								
	Holding the seminar (presentation of working draft of the Conception, discussion of its weaknesses)																█								
	Elaboration of final draft of the Conception																█	█	█						
	Presentation of the final draft of the Conception and its approval by the partners involved																		█						
	Presentation of the final draft of the Concept to the interested target groups (authorities and investors)																		█						

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	Holding the Initial Conference		■																							
	Collecting the analytical data		■	■	■	■																				
	Processing the analytical data		■	■	■	■																				
	Exchanging of information with foreign partners		■	■	■	■																				
	Preparing the first project seminar				■	■																				
	Holding the first seminar					■																				
5	Definition of mechanism of the Conception implementation management																		■	■						
	Preparation of the multilateral co-operation agreement among institutions involved to the Conception implementation																			■	■					
	Preparation of the project Final Conference																				■	■				
	Holding the project Final Conference																					■				
	Preparation and publication of project flyer, recommendations on biomass treatment and the Conception handbook				■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	Further promotion of the Conception and co-operation with authorities and other institutions in the field of Conception implementation																					■	■	■	■	■