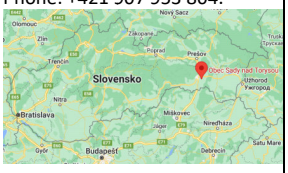
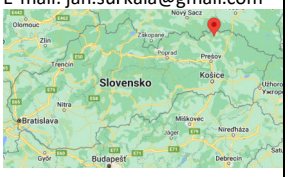
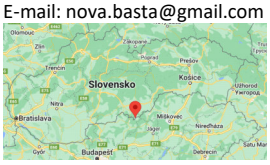
Data base for the Best Solutions summarizing in border regions

Country	Pilot community	Location of the community, web-site, contact person / mayor, JPS location, picture / photo	What had been done / energy audit, energy monitoring / energy management components? Please provide short description here and detailed in the attachment.	Description of the buildings Building1. Building 2. Building 3.	What is the best solution / recommendation had been provided
Ukraine	1. Kholmkivska community			Building 1. School	
	2. Dubove community			Building 1. Nursery school	
	3. Vilhivetska community			Secondary school	
Hungary	1.				
	2.				
	3.				
Slovakia	1. SadynadTorysou community	Located in the eastern part of the Košice basin. It is located near the borders with Hungary (22 km) and Ukraine (85 km). The village stretches on both banks of the Torysa river. GPS: 48.7076854, 21.3450325. Web-site: https://www.sadynadtorysou.sk/. Head of the communityis IvetaTomková - the mayor. Phone: +421 907 953 804. 	An energy audit carried out was for the building. The energy audit processed is for purpose of reducing energy consumption in the operation of public buildings. The subject of the energy audit is: - evaluation of the thermal properties of building structures, - assessment of energy consumption of current technical building systems, - proposal of measures for significant renovation of buildings, measures for reconstruction and modernization of technical systems in buildings, - determination of energy savings potential, - Economicevaluation. The energy audit intended is to improve the energy efficiency of buildings and used can be as a basis for the preparation of project documentation for the renovation of buildings.	Building 1: Municipal Office with the cultural center.  The building in question used is as a municipal office with a cultural center. The building is made of bricks, consists of two parts - a three-story municipal office with a post office and a two-story cultural center, a one-story gas regulation station with its own entrance was later added on the west side of the building. The roofs are gabled with a non-residential attic, in the municipal office part of the roof there are three dormers.	Recommendation 1: - insulation of the perimeter wall (180 mm); - insulation of the roof structure (300 mm); - replacement of original filling structures with new ones; - Application of forced ventilation with a heat recovery unit. Recommendation 2: - Modernization of the heating system, - Changing the heat distribution system includes, - Replacing the heat source. - Replacement of the central hot water system with a new local electric pump. It is possible to reduce energy consumption by 77.6% in the

					assessed object.
	2. Zborov community	Zborov community is located in the Zborovská basin, which is part of the Carpathian Mountains. It is 95 km from Ukraine and 93 km from Hungary. Area of the village: 19.63 km². Population: 3,551 (2021). GPS: 49.364265, 21.306381 Head of the community is Mgr. Jan Šurkala, PhD. – the mayor of the village. Phone: +421 948 212 206. E-mail: jan.surkala@gmail.com 	An energy audit carried out was for the building. The energy audit processed is in order to determine the potential of energy savings by implementing a significant renovation of the building and energy economy. The subject of the energy audit is: - evaluation of the thermal properties of building structures, - assessment of energy consumption, - proposal of measures for significant renovation of the building - proposal for measures to modernize the technical systems in the building, - determination of energy savings potential, - Their economic and environmental assessment.	Building 1: United school.  The building has a partial basement, with two aboveground floors. There are gymnasiums and workshops in the annex. The perimeter shell is made of 250 mm thick gas silicate panels with 80 mm thick EPS insulation. The roof structure is double-skinned from reinforced concrete panels equipped with thermal insulation. The roof is made of asphalt shingles with a ventilated roof. The infill structures of the windows and doors are plastic with insulating double-glazed glass throughout the building. Original floor constructions on the ground with underlying concrete, waterproofing, and 10 mm insulation.	Recommendation 1: Insulation of the roof structure with 400 mm thick insulation. Recommendation 2 for the lighting system: Replacing the lighting in the AB building with LED lighting. Installation of photovoltaic panels. Recommendation 3 for heating system: Ventilation recovery and heat source replacement or reconstruction. Recommendation 3 for hot water: Reconstruction of hot water distribution system. The measures can reduce the consumption of the total supplied energy by 55.05%.
	3. NováBašta community	The community NováBašta is located in the south of Slovakia in the district of RimavskáSobota, near the border with Hungary (5 km). The village is located near Cérovavrchovina. Area of the village: 13.18 km². Population: 481 (2021). GPS:48.170426, 19.946273. Head of the community is Richard Molnár - the mayor. Phone: +421 915 497 723. E-mail: nova.basta@gmail.com 	An energy audit carried out was for the building. The subject of the energy audit is: - evaluation of the thermal properties of building structures, - assessment of energy consumption of current technical building systems, - proposal of measures for significant renovation of buildings, - determination of energy savings potential, - Economic evaluation. The energy audit intended is for the owner of the building, for the needs of his decision-making about the possibilities of implementing proposed measures and recommendations for	Building 1: Administrative building  The object used is as an administrative building. It is a one-story administrative building without a basement with a gable and flat roof. The perimeter walls as well as the vertical supporting structures of the building under consideration are made of 450 mm thick brick. Horizontal structures are made of wooden beams. The surface treatment of the premises consists	Recommendation 1: - insulation of the perimeter wall (150mm) - insulation of the roof structure (300mm) - floor insulation in the field (100mm) - Replacement of all filling structures with new ones. Recommendation 2: Replacement of the heat source for heating and preparation of hot water, modernization of the distribution system.

			improving the energy efficiency of buildings, and used can be as a basis for the preparation of project documentation for the renovation of buildings.	mainly of lime-cement plaster with painting. Hygienic rooms are equipped with ceramic tiles. The external finish consists of lime-cement plaster, which degraded is in several places. The building has wooden double-glazed windows. The doors are original wood.	By implementing the proposed measures, it is possible to save 45.81% of energy.
Romania	1.				
	2.				
	3.				