

**Interreg  
Europe**



Co-funded by  
the European Union

**EXPRESS**

# **EXPRESS 1st THEMATIC STUDY**

**Karolina Krukowska**

*Project Coordinator*

*[kkrukowska@rarr.rzeszow.pl](mailto:kkrukowska@rarr.rzeszow.pl)*

**27 JUNE 2023 | 15 Minutes | Joensuu, Finland**

# About Rzeszow Regional Development Agency and the Podkarpackie Region

RRDA - public non-profit institution established by the Region's Local Authorities and located in Rzeszów – the capital city of the Podkarpackie Region.

The Podkarpackie Region - one of the 16 Regions, located in south-east of Poland. The Region is managed by the – the Marshal's Office of Podkarpackie Region.



**RARR**  
RZESZÓWSKA AGENCJA  
REGIONALNA ROZWOJU

**POPULATION OF  
RZESZÓW**

**197 181**  
INHABITANTS



# About Rzeszow Regional Development Agency and the Podkarpackie Region

## RRDA's and the Podkarpackie Region main aims:

- multi-level, comprehensive support of the Region's development,
- to play an active role in achieving the objectives of current Policy Instrument - European Funds for Podkarpackie Region 2021-2027 financed from the Eastern Poland Programme for 2021-2027,
- to constantly improve the quality and standard of life of its inhabitants, promote the possibilities offered by the Region,
- promote the image of Podkarpackie Region as a modern, innovative and economically developed area,
- support Region's social, economic and technological growth as well as significantly affect the national and international development.



**AREA:**  
17 846 sq.m

**1,2 M**  
INHABITANTS









# RZESZÓW and PODKARPACKIE REGION IN PICTURES



# EXPRESS PROJECT LINKAGE TO STRATEGIES AND REGIONAL DEVELOPMENT WORK

## Priority II – Clean Energy and Environment of the European Funds for Podkarpackie Region 2021-2027 (PI)

### main objectives:

- efficient use of Energy
- limited energy intensity of the economy
- increased energy efficiency and energy efficiency
- promotion of RES
- increase of the share of RES in the overall energy balance of the Podkarpackie Region
- support of the energy transition towards a low-carbon economy



[www.interregeurope.eu/EXPRESS](http://www.interregeurope.eu/EXPRESS)

# REGIONAL CONTEXT ASSESMENT IN A NUTSHELL

Hydroelectric power plants and photovoltaic panels – main sources of electricity production from RES in Podkarpackie Region.

RES GOAL FOR  
POLAND IN 2030

**21-23%**

THE SHARE OF ELECTRICITY  
PRODUCTION  
FROM RES  
IN PODKARPACKIE VOIVODESHIP

**2020 - 23%**  
**2021 - 18,2%**

THE SHARE OF RES  
IN POLAND - 2021

**15,62%**



GREEN

[www.interregeurope.eu/EXPRESS](http://www.interregeurope.eu/EXPRESS)

# BIGGEST CHALLENGES AND POTENTIAL AND RENEWABLE ENERGY SELF-SUFFICIENCY POTENTIAL

## The biggest challenges to tackle:

- high risk of energy poverty due to the invasion of Russian to Ukraine,
- low air quality, too much greenhouse gas emissions (mainly CO<sub>2</sub>),
- very high energy consumption in buildings,
- use of hard coal by households for heating in the Podkarpackie Region,
- improvement of transport accessibility and circular economy,
- public transport and commuting zones.

## The potential:

- constantly increasing share of RES use in overall energy balance of Podkarpackie Region as well as in Poland,
- support of local authorities in the energy transition ( „Clean Air” - individual household support programme),
- promotion of energy efficiency, intelligent energy management and renewable energy use in public infrastructures,
- including in public buildings and in the housing sector.





# IDEAS FOR REGION'S GOOD PRACTICES

## Low-energy consumption or energy passive public buildings

**The hdqrs. of Podkarpackie Chamber of Structural Engineers** – example of modern, ecological architecture and energy-saving construction technologies, built according to the standards of passive building construction.

**Self-sufficient bus station** - facility entirely covered with photovoltaic panels are located on the facades, bus shelters and even shutters. The power of the photovoltaic installation in combination with a heat pump makes it zero-energy building.

**Public swimming pool** – built according to the standards of passive buildings construction. It's equipped with heat pumps, increased thermal insulation, a solar installation and a charging station for electric vehicles. Approx. 40 % of the building's electricity needs comes from photovoltaic panels .

## Cross-sectoral cooperation

### **Hydrogen Valley of Podkarpackie Region**

**Aim:** to undertake projects related to obtaining hydrogen, economical forms of production, and finally the use of hydrogen in the economy. In Podkarpacie, hydrogen-powered buses, which have recently been produced and tested by Sanok's Autosan, are most often mentioned in this context.

[www.interregeurope.eu/EXPRESS](http://www.interregeurope.eu/EXPRESS)



GREEN

# THE GOALS IN THE PROJECT

Through the EXPRESS project RRDA will promote RES and their increase in the overall energy balance of the Podkarpackie Region and transition towards low-carbon economy.

The improvement and possible actions will be based on EXPRESS project knowledge exchange, lessons learnt and the best solutions presented by project partners in the area of RES and the increase of the energy self-sufficiency in the participating regions.



GREEN

[www.interregeurope.eu/EXPRESS](http://www.interregeurope.eu/EXPRESS)

**Interreg  
Europe**



Co-funded by  
the European Union

**EXPRESS**

# Thank you!

*The project EXPRESS is implemented in the framework of the Interreg Europe programme and co-financed by the European Union.*

[www.interregeurope.eu](http://www.interregeurope.eu)

