

RenewMap HU-HR Project summary

Cecília Mezei (project leader, IRS)

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Project overview

- Project duration: 24 months (2026.02.-2028.01.)
- Support: 223 805 EUR; Project budget: 279 756 EUR
- Consortium: 2 partners and 2 supporting partners –
 - ELTE CERS IRS (Institute of Regional Studies, Eötvös Loránd University Centre for Economic and Regional Studies)
 - Fakultet Elektrotehnike, Računarstva I Informatičkih Tehnologija Osijek (Faculty of Electrical Engineering, Computer Science and Information Technology Osijek)
 - ❖ Dom zdravlja Osječko-baranjske županije (Osijek-Baranja County Health Center)
 - ❖ Keszthely Város Önkormányzata (Municipality of Keszthely City)
- 15-20 experts and researchers will participate
- Researched and targeted territory: eligible area





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Role of project partners

Consortium members (IRS, FERIT):

- Joint, balanced
 - research and development,
 - event organization,
 - communication and publication activities.
- The coordination of individual activities is shared, but the consortium carries out all activities jointly.

Partners without budget (Osijek County HC, Keszthely):

- Our supporting partners help the work by
 - defining their needs,
 - providing data,
 - quality assurance,
 - and participating in our events.
- Energy audit/assessment of 1-1 of their buildings will be carried out in the project, which will help test our developed tools.



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Cooperation...

- with GeoBuilding Interreg project consortium
- ...

Interreg VI-A Hungary-Croatia Programme

2025. december 12. · 🌐

[Strategic Projects] 📍📌 The opening 🗉 conference of the Geo Building strategic project was held on 10 December in Pécs, Hungary 🇭🇺, with the project, the partnership and the planned activities presented to the public and the media.

The speakers 🗣️👤 included representatives of Pécs University, as the Lead Partner and other partner organisations included in the project, as well as representatives of the Joint Secretariat and experts in the field of sustainable development and geothermal energy.



The project is funded under Priority 2 of the Programme and focuses on energy efficiency measures on public buildings 🏠👤👤.

Through piloting the use of 🌍 geothermal energy for heating 🔥🔥, the renovated buildings will serve as models for sustainable geothermal-based renovation practices in public buildings by demonstrating how integrating geothermal and other RES can modernize ✅🔄 existing infrastructure, lower 📉 emissions, and reduce 📉 operational costs 💰 in a replicable and scalable way. 🌱🌿🌳🌍

#huhrcbc #whereriversconnect #Interreg #StrategicProjects #OSI #geothermalenergy #energyefficiency



Identified challenges



Unused renewable energy potential - especially in underdeveloped, rural areas



Energy efficiency gaps in public and private buildings



Complex energy calculations behind investments (difficult for a layperson, needed „language” transfer)



Lack of widespread knowledge about technological solutions



Complicated decision-making on the part of community actors (decisions are driven by subsidies or technology owners)



Energy experts are needed to substantiate investment decisions (this is expensive, they are often only employed after the investment decision has been made)

Project objectives



Conduct a complex renewable energy and energy efficiency research covering the eligible area (regulation, potential, results)



Prepare a renewable energy potential map for the study area



Develop an online tool (application) that can help property owners make renewable energy and energy efficiency investment decisions in the Croatian-Hungarian border region



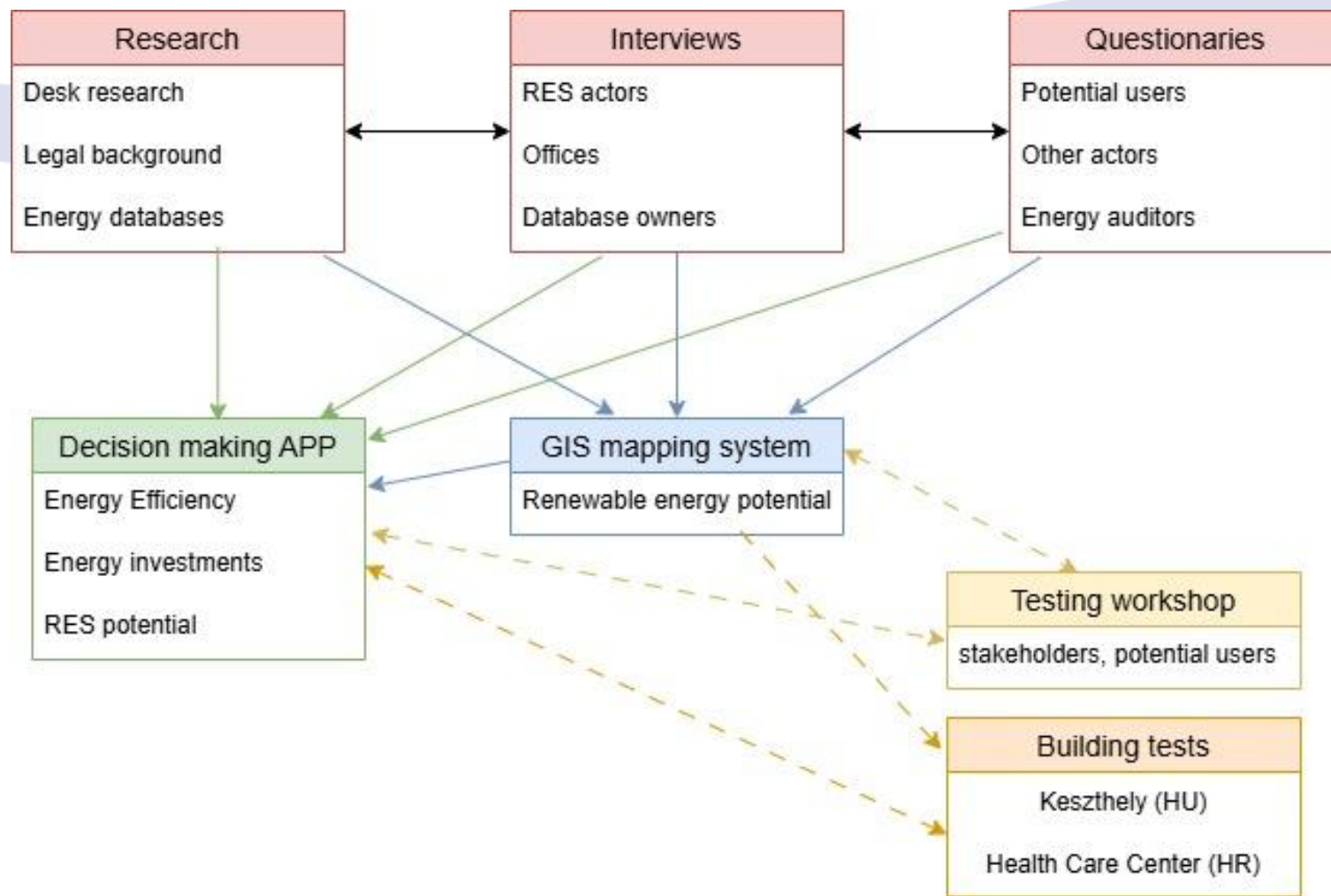
Publish a policy recommendations to support decision-making of local-regional community actors



Conduct an active communication campaign about the project results in order to shape attitudes and transfer knowledge effectively



Project activities



Expected results

- Renewable energy and energy efficiency research – at least 2 research reports (by activity groups), 1 publication in scientific journal, 2 presentations in conferences
- Conducted interviews (at least 10) and developed online questionnaires (3 languages)
- Renewable energy potential map – developed database, published GIS map, user manual
- Online energy efficiency application – developed decision-making matrix for energy investments, developed App (RenewM-App), user manual
- One workshop for testing IT tools
- Policy recommendations – published online in 3 languages
- Active communication campaign – 2 public events, 2 social media profiles, 1 project website, 20-30 social media post



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RenewMap

Main results



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Input Parameters

-  **Building Type**
Public, residential, industrial classification
-  **Size and quality**
Total floor area and building quality informations
-  **Current Energy Condition**
Insulation level, heating system, other energy efficiency conditions
-  **Location-based Renewable Potential**
Solar, geothermal, biomass availability

Tool Capabilities

-  **Calculates Investment Costs**
Detailed cost breakdown based on current market prices and projected growth indexes
-  **Estimates Return Periods**
ROI calculations considering energy savings and renewable generation
-  **Suggests Phased Improvements**
Prioritized recommendations (e.g., insulation first, then renewable integration)

The work has just begun...



RenewMap
Renewable Energy Mapping for Rural Development – Opening Conference & Stakeholder Workshop
24th April 2026. Osijek, Croatia
Where rivers connect
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Deal with it	Resource of RE	Type of RE	Method of use	Scale	Technology	Literature	Link	Notes	Potential database	Inserted infrastructure	Other info
include	sun	solar photovoltaic	energy production	both	solar panel		https://re.jrc.ec.europa.eu/prj_tools/en/	calculation of unused roof area? Calculation of brownfied area?	PVGIS	data requirement from MEKH	https://www.mnmsz.hu/hu/ol-epuinek-naperomvekek-magyarorszagon-interakti-v-temep/
pending	sun	solar photovoltaic	heating	local/household	solar collector		https://re.jrc.ec.europa.eu/prj_tools/en/	calculation of unused roof area?	PVGIS	no data	https://www.mekh.hu/download/fix/betaplasi_ranyu_csatlakozasok
pending	wind	wind energy	energy production	large	wind turbine	https://energy.ec.europa.eu/news/5-things-you-should-know-about-wind-energy-2025-04-22_en	https://globalwindatlas.info/en/and-local-les	no important potential	Global Wind Atlas	data requirement from MEKH	https://energiaklub.hu/files/intographics/Magyar_szelermuvek.jpg
pending	wind	wind energy	energy production	local/household	wind turbine for households						https://energiaklub.hu/noce/9239

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<https://lnkd.in/dTAxakW> ...more

RenewMap
Opening Conference & Stakeholder Workshop
Osijek, 24th April 2026
renewmap.eu/opening-conference

Mapping renewables. Powering decisions.
Where rivers connect

Kick-off meeting
RenewMap
February 24th 2026

Next steps

- conducting **research phases** and **data collection** (IRS-FERIT)
- communication with **supporting partners** about their priorities and needs (IRS-Keszthely, FERIT-Osijek County Health Centre)
- finalisation of questionnaires, interviews (templates) (IRS-FERIT) – **to collect the needs of potential users of our results (IT tools)**



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Thank you!

Cecília Mezei (ELTE CERS IRS)

project@renewmap.eu



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Stakeholder WORKSHOP

Collection of information for the RenewMap's tools

Viktor Varjú, IRS