

**Interreg  
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# Mapping optimal energy sources and potential DH demand

Accelerating the Future of District Heating: From Policy to Practice

REHEATEAST transnational workshop for Hungary, Slovakia and  
Slovenia

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## Spatial Energy Planning as a Basis for the Heating Transition:

*The transition towards more sustainable heating requires a better understanding of the territory*

Energy planning must consider:

- the availability of local and renewable energy sources,
- the spatial distribution of heat demand,
- existing infrastructure and settlement patterns,
- environmental and technical limitations,
- and the needs of different user groups.

***A map-based approach helps connect energy potential with real territorial conditions.***



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## **From Energy Data to Informed Decision-Making**

**Map-based visualisation transforms complex energy data into understandable and usable information.**

It supports:

- municipalities in local energy planning,
- regional authorities in strategic decision-making,
- investors in identifying suitable locations,
- district heating operators and users in understanding future development potential,
- residents in accessing transparent information,
- universities and students in education, analysis and applied research.

***The value of the map lies not only in data collection, but in making the data accessible, comparable and spatially understandable.***

## Energy Mix Map of the Košice Region

Within the REHEATEAST project, Via Carpatia EGTC, together with the **Košice Self-Governing Region** and **Pavol Jozef Šafárik University in Košice**, developed a new **application** on the KSK geoportal: [geoportalksk.sk](https://geoportalksk.sk)

The application provides a spatial overview of selected energy-related data and helps identify:

- local renewable energy potential,
- possible links between energy sources and heat demand,
- areas relevant for future district heating development,
- and opportunities for more sustainable regional energy planning.

***The Energy Mix Map is designed as a practical tool for analysis, planning, education and public information.***



- The Energy Mix Map was created on the basis of analytical datasets provided by **Pavol Jozef Šafárik University in Košice** and **MH Teplárenský Holding, a.s.**
- These data packages enabled the development of thematic map layers related to:
  - solar potential
  - wind potential
  - surface overheating
  - rainwater potential
  - geothermal potential
  - suitability for heat pumps
  - buildings, parcels and administrative spatial units

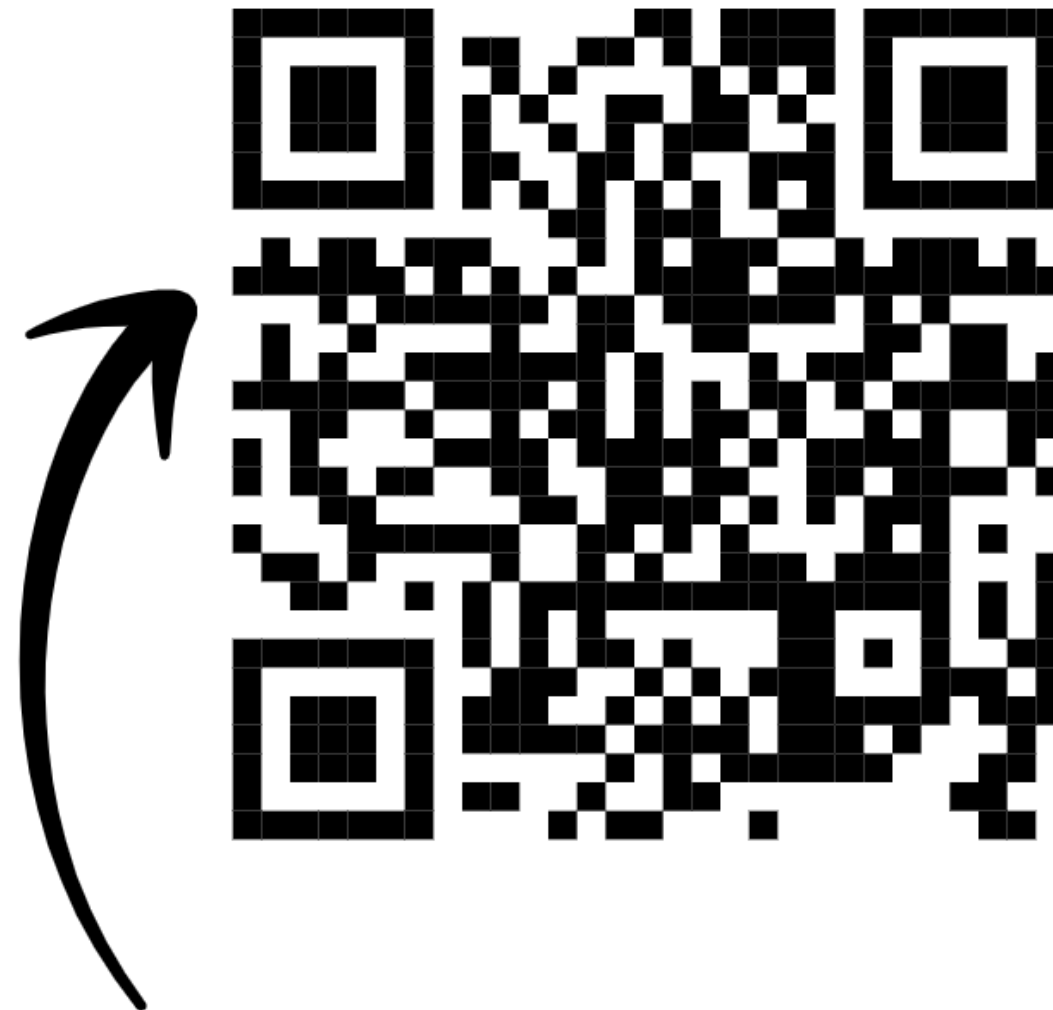
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**Scan to view the interactive Geomap**





## Applications

Browse data in a simple and friendly way through thematic map applications.

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## Catalog

Access to the data catalog of open and geospatial data about the Košice Region for viewing and downloading.

→ FIND OUT MORE



## Map

The Map Viewer is a more advanced online map tool for browsing and analyzing geodata from a catalog in layers.

→ FIND OUT MORE

## Making Regional Energy Potential Visible

The Energy Mix Map helps transform fragmented energy-related data into a clear spatial picture.

It contributes to:

- more transparent public information,
- better local and regional planning,
- evidence-based investment preparation,
- improved understanding of district heating potential,
- and stronger links between policy, practice and education.



**Better spatial knowledge leads to better energy decisions — and better decisions are essential for reducing fossil fuel dependency in district heating and cooling.**