**TRANSENERGY: TRANSBOUNDARY GEOTHERMAL ENERGY RESOURCES OF SLOVENIA, AUSTRIA, HUNGARY AND SLOVAKIA**

Teodora Šancev, György Tóth, Đorđe Mirković, Anna Kudáčová, Blažek Holman, Thomas Heldheiser, Radovan Černák, Gerhard Schubert, Andris Lapane, Erika Kocžíková, Ágnes Rotár-Szalkai, Gregor Goetzl

1 Geological Survey of Slovenia, 2 Geological Survey of Austria, 3 Geological Institute of Hungary, 4 State Geological Institute of Slovakia

---

### Project basic information

**Central Europe Programme, Application Round 2, Priority 3: Using our environment responsibly**

**Project number:** 2CE 124 P3

**Duration:** 01.04.2010 - 31.03.2013

**Partners:** National Geological Surveys of Hungary (MÁFI), Austria (GBA), Slovenia (SGUDS) and Slovenia (GeoZS)

**Lead partner:** MÁFI, project leader: Dr. Annamária Nádor (nador@mafi.hu)

#### Project activities (Work Packages)

- **WP 1** Project management and coordination
  - Responsible partner: Geological Institute of Hungary (MÁFI)

- **WP 2** Communication, knowledge management and dissemination
  - Responsible partner: Geological Survey of Austria (GBA)

- **WP 3** Utilization aspects
  - Responsible partner: Geological Survey of Slovenia (GeoZS)

- **WP 4** Transnational data management
  - Responsible partner: State Geological Institute of Dionyz Stur (SGUDS)

- **WP 5** Cross-bounder geoscientific models
  - Responsible partner: Geological Institute of Hungary (MÁFI)

- **WP 6** Implementation tools for transboundary geothermal resource management
  - Responsible partner: Geological Survey of Austria (GBA)

---

**The project website** (http://transenergy-eu.geologie.ac.at) as a main core output of the project will be the central information medium, which will show all relevant information on the potential, vulnerability and sustainability of the geothermal system in the investigated transboundary regions with different exploitation scenarios of thermal water/heat.

**The methodology** for joint groundwater management and utilization maps summarizing the legal steps and actions towards a harmonized management strategy of transboundary geothermal resources, and a best practice on geological use;

The project website integrates all results of activities performed in below defined work packages.

---

**Representative regions**

Transenergy project area. Within the „supra-regional“ area (dotted red line) the project focuses on some representative regions along the borders (thermal karst of Komarno-Sturfo area (HU-SK), Central Depression of the Danube basin (A-SK-HU), Lutzmannsburg–Zsira area (A-HU), Vienna basin (SK-A) and Bad Radkersburg – Hodoš area (A-SLO-MH)).

---

**Project management structure**

Managing Authority: Joint Technical Secretariat

---

**Main project outputs**

- **SUMMARY REPORT OF THE SCENARIO MODELLING**
- **SUMMARY REPORT OF THE STEADY-STATE MODELLING**
- **INTERACTIVE GEOTHERMAL WEB-PORTAL**
- **STRATEGY PAPER ON CROSS-BORDER GEOTHERMAL UTILIZATION**
- **COMMON MULTILINGUAL DATABASE WITH HARMONIZED DATASETS**

---

**Strategic focus/main objectives:**

**PROJECT ACTIVITIES AND THEIR OUTPUTS**

- **WP 1** Project management and coordination
  - Strategic focus/main objectives:
    - Core outputs:
      - Project management and coordination

- **WP 2** Communication, knowledge management and dissemination
  - Strategic focus/main objectives:
    - Core outputs:
      - Project promotion of output and results
      - Project website, training on the use of the web-portal

- **WP 3** Utilization aspects
  - Strategic focus/main objectives:
    - Core outputs:
      - Recommendation on legal and utilization actions for sustainable geothermal energy use
      - Utilization maps, methodology to joint groundwater management
      - Data collecting and establishment to joint database as a source of unified data for geoscientific modeling
      - Own multilingual database with harmonized datasets

- **WP 4** Transnational data management
  - Strategic focus/main objectives:
    - Core outputs:
      - Provide all necessary geoscientific information in the form of maps and models
      - Summary report of the scenario modelling, summary report of the steady-state modelling

- **WP 5** Cross-bounder geoscientific models
  - Strategic focus/main objectives:
    - Core outputs:
      - Web-based information tool, feasibility study and strategy - paper on geothermal use
      - Interactive geothermal web-portal, strategy paper on cross-border geothermal utilization

---

**Tectonic map of the Mediterranean, showing the project area and position of the Carpathians within other structural features of the Alps belt.**

---

**XXXVIII IAH Congress - Krakow – Poland, 12-17 September 2010**