



Annex No.1. Specification for WP1.1 Screening of potential sites for H2 storing in Slovakia

The first step of the project H2I-S&D will be WP1.1. This task consists of three main parts:

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- 1.1.1 Development of selection criteria for suitable geological porous structures
- 1.1.2 Screening of existing porous structures for H2 storing
- 1.1.3 Selection of best suitable porous structure for H2 storing

Main objectives:

- Development of the methodology for reservoir assessment
- Preselection of suitable reservoir in Slovakia for laboratory experiments
- Database

In first step, based on SAV experience as well as NAFTAs experience the criteria will be defined. The outcomes will be not just the criteria, but also identification of data which are necessary to add in case that the reservoir seems to be suitable, but some data are missing. Then the criteria will apply for the reservoir structures, which will be evaluated and ranked.

Outcomes:

- Methodology for evaluation of geological structures for storing of H2 (pure form, mixture with natural gas)
- Preselected structures for laboratory experiments
- Database and GIS map of the Slovak geological structures potentially suitable for storing of H2 (in pure form as well as in form a mixture with natural gas)

Other requirements:

- Offering the topic for student as master thesis
- Support during the licensing process
- Article for publishing in open source