

SK – Trnava Sered'



General

Owner

MBP Sered company

Operator

MBP Sered company

Description: The County of Trnava has the highest amount of thermal energy used in Slovakia. The geothermal district heating supplies 3760 apartments, i.e. 10,8 MWth. It saves 600 000 m3 of gas each year.

Project

Inhabitants connected

Out of 16000 inhabitants in town, 3760 apartments are supplied by GeoDH

Others uses (drinking water, cascade uses...)

Part of water cooled in heat exchangers sold to recreation centre (swimming pools, space and tap water heating), second recreation centre based on cooled geothermal water expected to be opened in 2014

Planning of the operation (from pre-studies to full completion)

2009

Comparison with fossil energies

Approx. 600,000 m3 of natural gas annually saved / 1,200 tons of CO2 saved annually

Design of the DH

A primary two-pipe distribution network is connected to pressure dependent heat exchanger stations installed directly in supplied buildings (17 apartment buildings, 4 public buildings) with 960 apartments. Geothermal energy is used for pre-heating (66°C production temperature) and it is supported by natural gas boilers.

Production of heating and/or cooling

383 TJ/2012 geoth. (total 513 TJ/2012), no cooling via the net (small scale cooling in operator's office building)

Dates of beginning and end of construction

2010-2011

Financing

**Financing
(Bank, funds,
PPP...)**

Banks

**Investment for
geothermal well**

1.6 M€

Technical

**Installed capacity
(MWth)**

10,833 (60% covered
by geothermal energy)

**Temperature of the
geothermal resource
(production - injection)**

Production: 66°C

**Installed
geothermal
capacity**

0,6

**Heat Pump
(power in MWe and
COP)**

0,6MWe

**Operating
Temperature of
the DH**

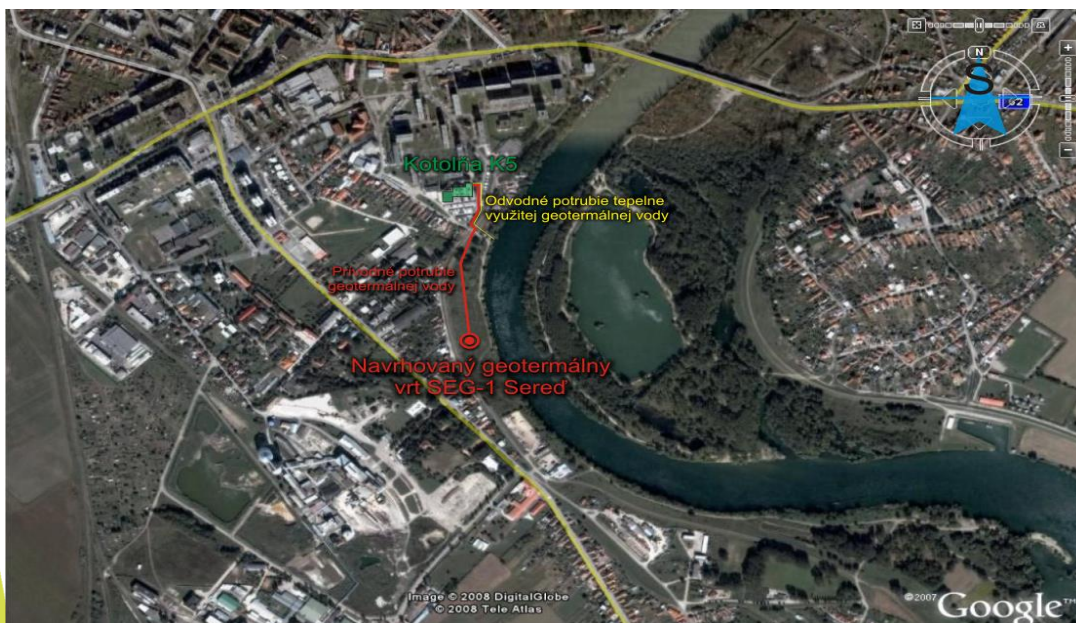
65/45°C

**Geothermal flow
rate**

8 l/s

DH Length

Subsurface and surface technical schemes



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