GEOTHERMAL POTENTIAL OF SLOVENIA

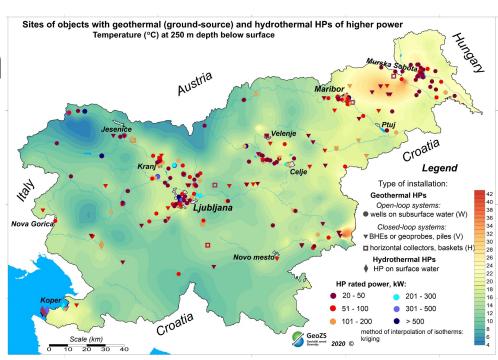
GEORISK, September 2021

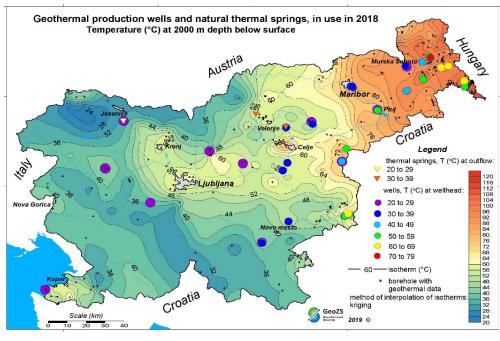
Geothermal potential of Slovenia

- Vast for shallow GT, various technologies
- High for direct TW use in NE and SE Slovenia (Pannonian basin)
- Highest currently used water temperatures 75 °C
- Highest measured temperature 202 °C at 3,8 km depth
- Some areas and depths below 2 km still poorly explored

Boreholes, deeper than 1 km

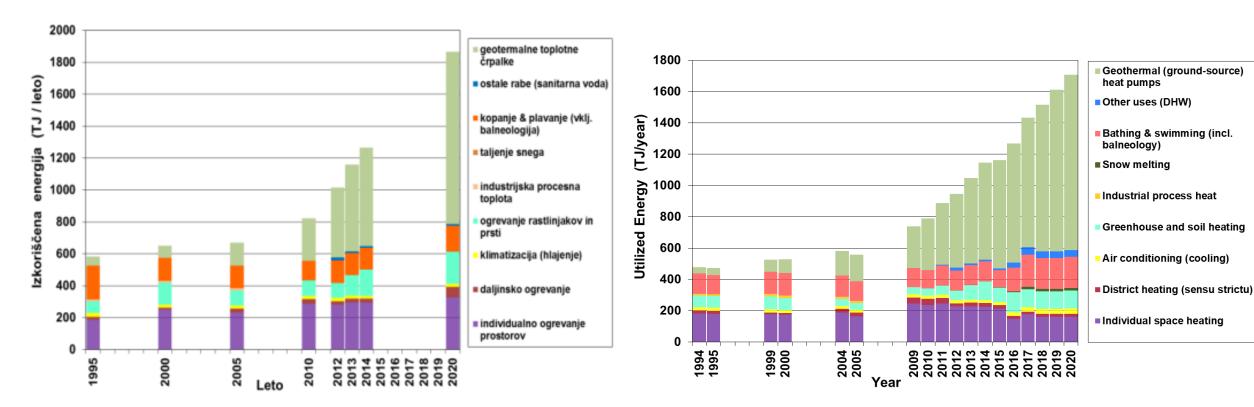






Utilized geothermal energy in Slovenia

- Shallow geothermal energy use and direct heat use of thermal water no electricity yet
- >30 Water concessions for TW abstraction, only one Mining concession for a doublet
- Rather constant energy production for thermal water use and linear increase in GT heat pumps



Challanges:

- Active boreholes are decades old need for make-up wells
- One active thermal water reinjection well need for new doublets
- High potencials and good aquifer capacity in East Slovenia possibility for new investments in heat production (water up to 70 °C) and cascade use
- Indicated potential for electricity in carbonates at 4 km in E Slo (202 °C)
- Many abandoned oil wells possibility of deep geoprobe installations
- High interest for TWINNING and knowledge transfer projects (on exploration methods, heat and cascade technology, exploration risk management and financing options)