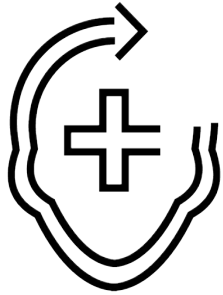
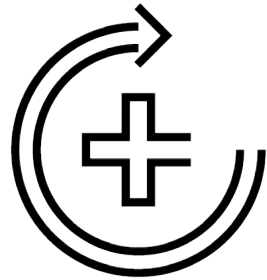


Renewable Geothermal Heat Energy Potential in the City of Valjevo and Surrounding Areas

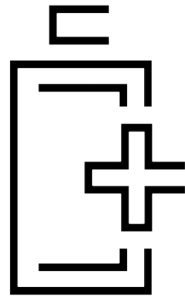


ReTHINK
Mining



ReSTORE
Confidence

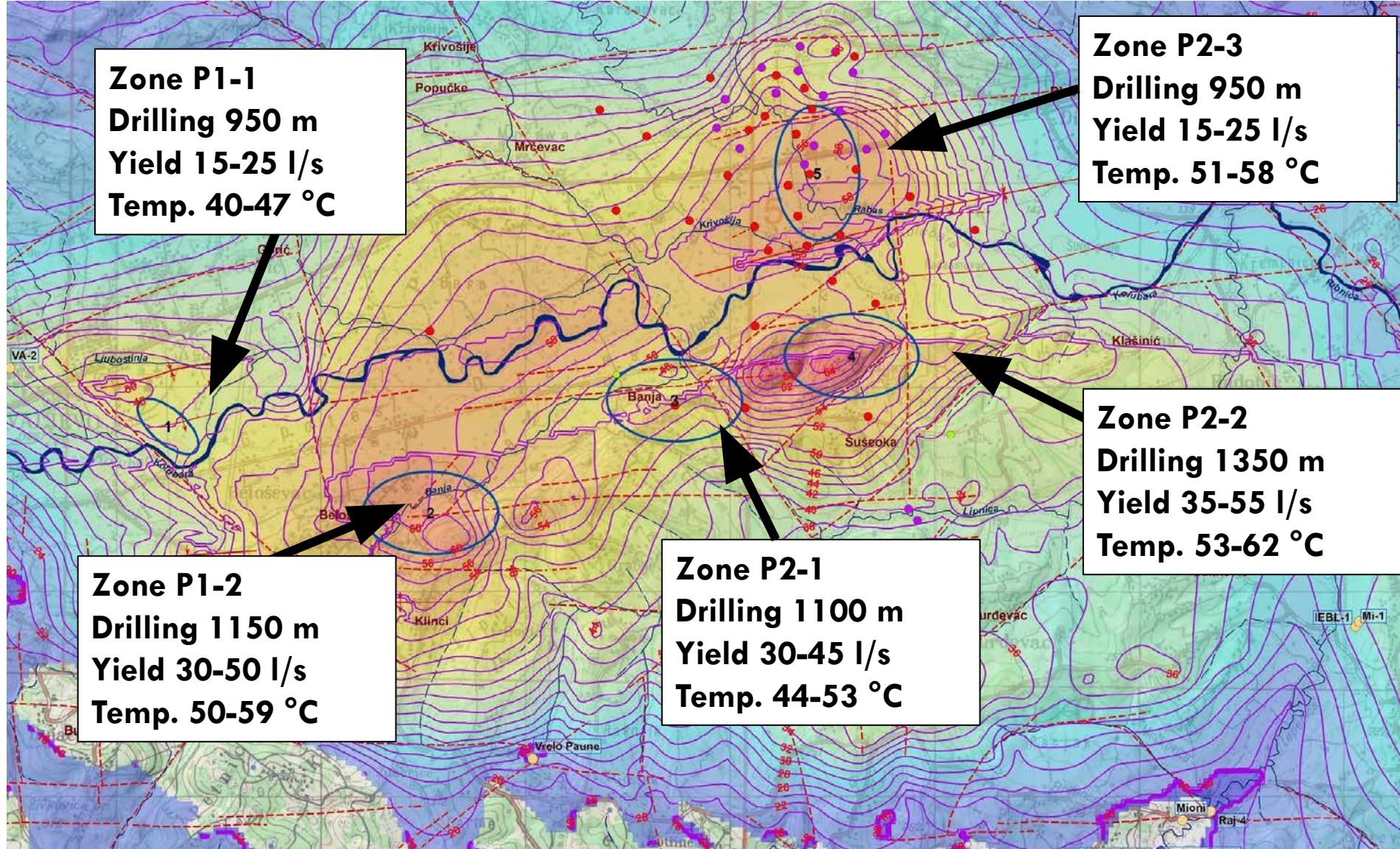
2023



ReCHARGE
Economies

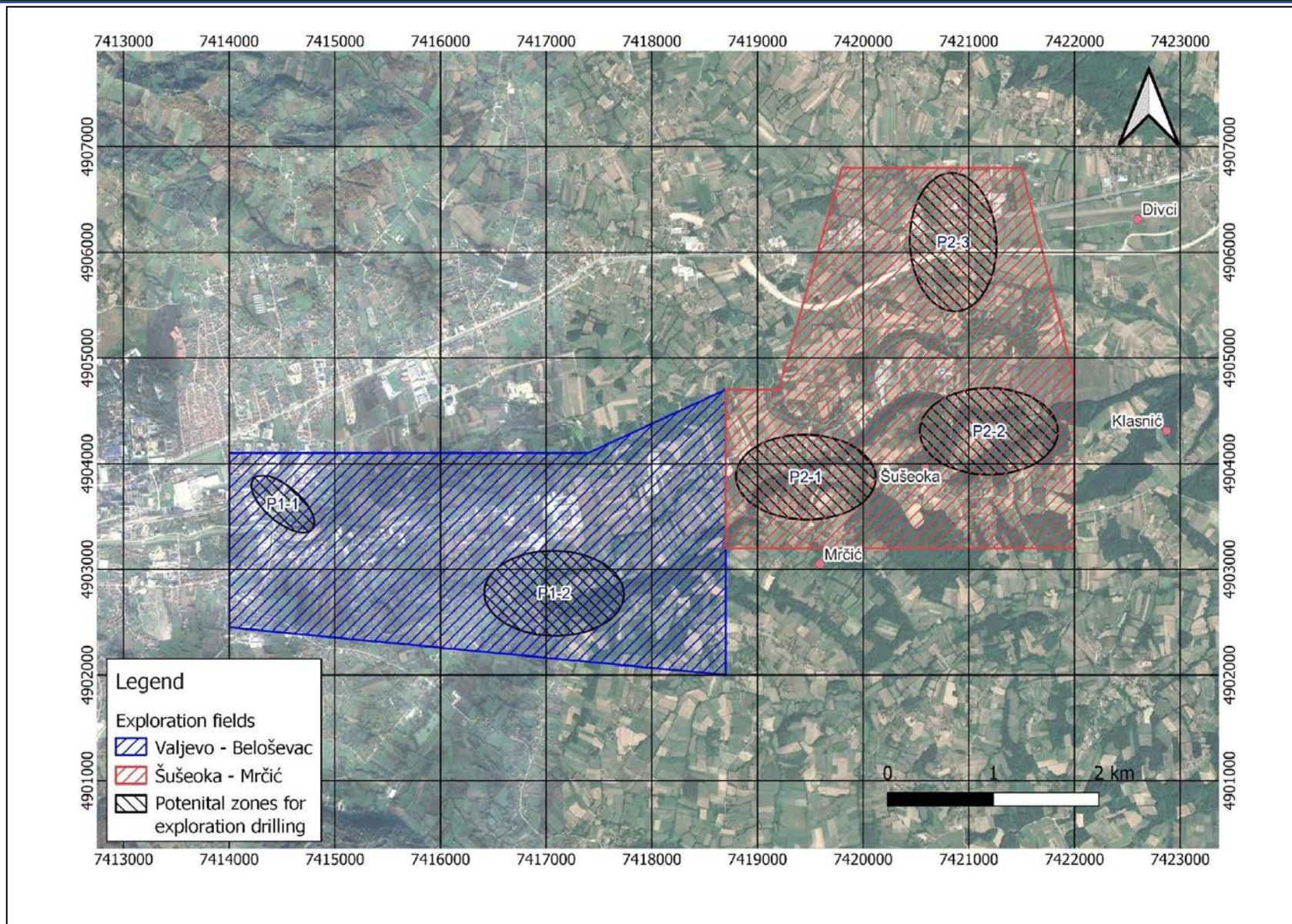


Geothermal Potential Exploration Areas in Valjevo (1)

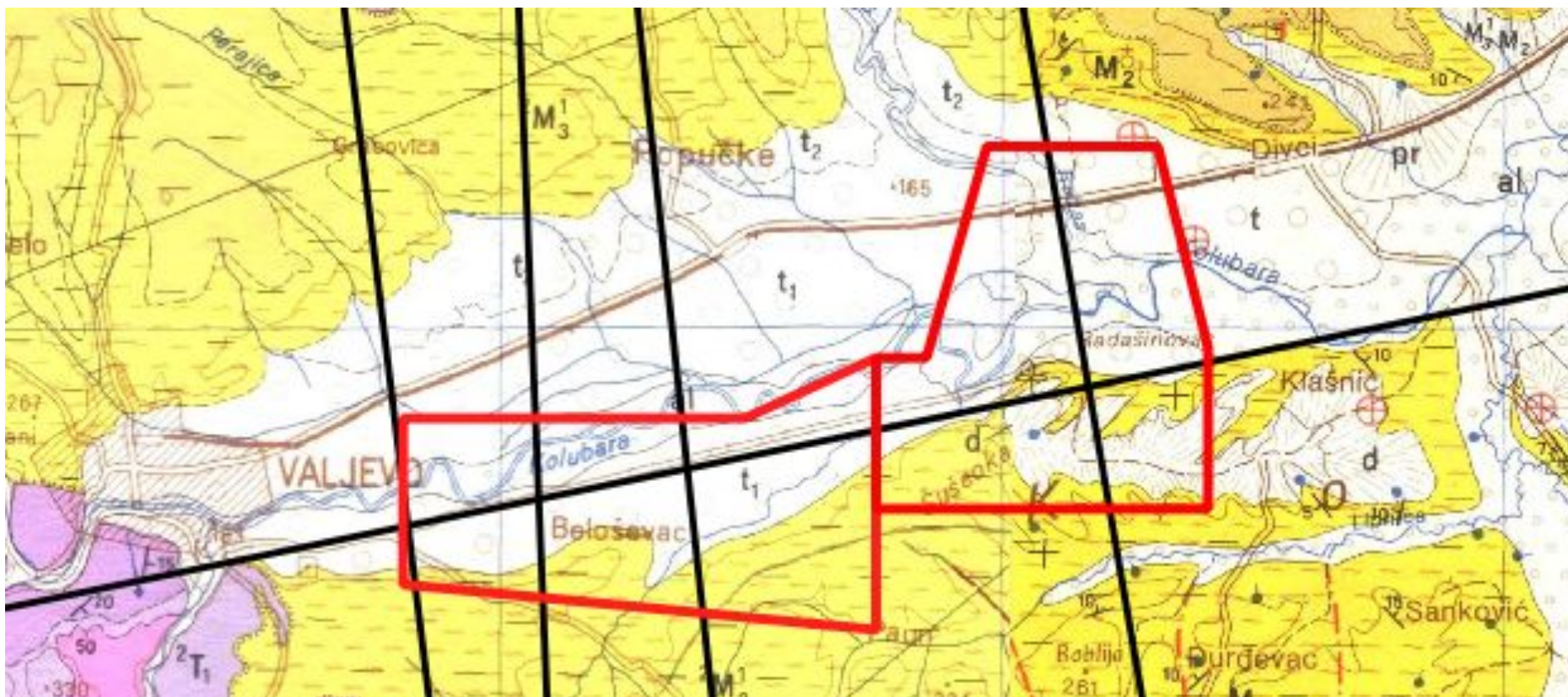


- Based on the data from the Study on Geothermal Potential of the city of Valjevo, the maximum temperatures and yields of underground water were calculated for each of exploration zones.
- The drilling depths were estimated.
- Five prospective zones were singled out, which were later processed in the project documentation as two exploration areas.

Geothermal Potential Exploration Areas in Valjevo (2)

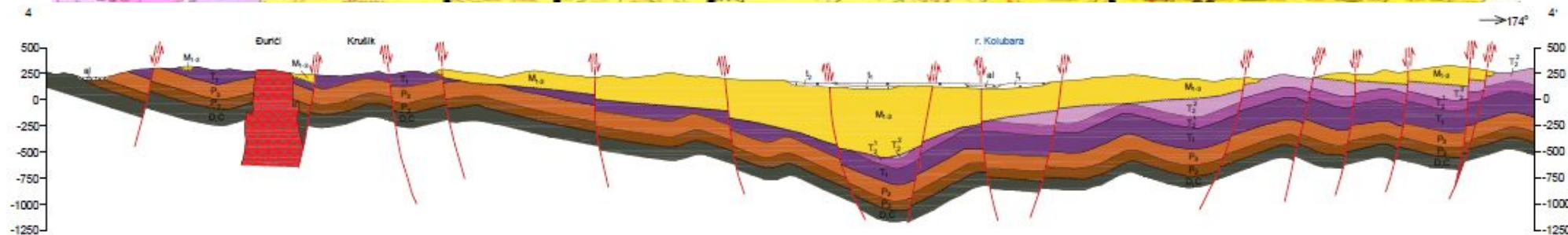


Geothermal Potential Exploration Areas in Valjevo (3)



LEGENDA:

- al Aluvijum
- t₁ Niži terasni sedimenti: peskovi i šljunkovi
- t₂ Viši terasni sedimenti: peskovi i šljunkovi
- T_B Feldspatoidne stene
- M₁₋₃ Laporci, gline, peščari i glinci
- T₂² Krečnjaci i krečnjačke breče (ladinski kat)
- T₂¹ Dolomiti i dolomitični krečnjaci (anizijski kat)
- T₁ Krečnjaci, glinci i peščari
- P₃ Krečnjaci sa glincima
- P₂ Glineni škrljci i peščari
- D,C Peščari i glineni škrljci



Potential Results (Heat)

Potential Groundwater Resource per Each Identified Zone

Zone	Potential well depth (m)	Drawdown in well (m)	Temperature in reservoir (°C)	Potential yield per well (l/s)	Potential yield per zone (l/s)
P1-1	700-950	300	44-47	15-25	50-70
P1-2	1000-1150	370	55-59	30-50	120-180
P2-1	1000-1100	350	49-53	30-45	110-160
P2-2	1100-1350	400	58-62	35-55	150-200
P2-3	800-950	300	54-58	15-25	50-70

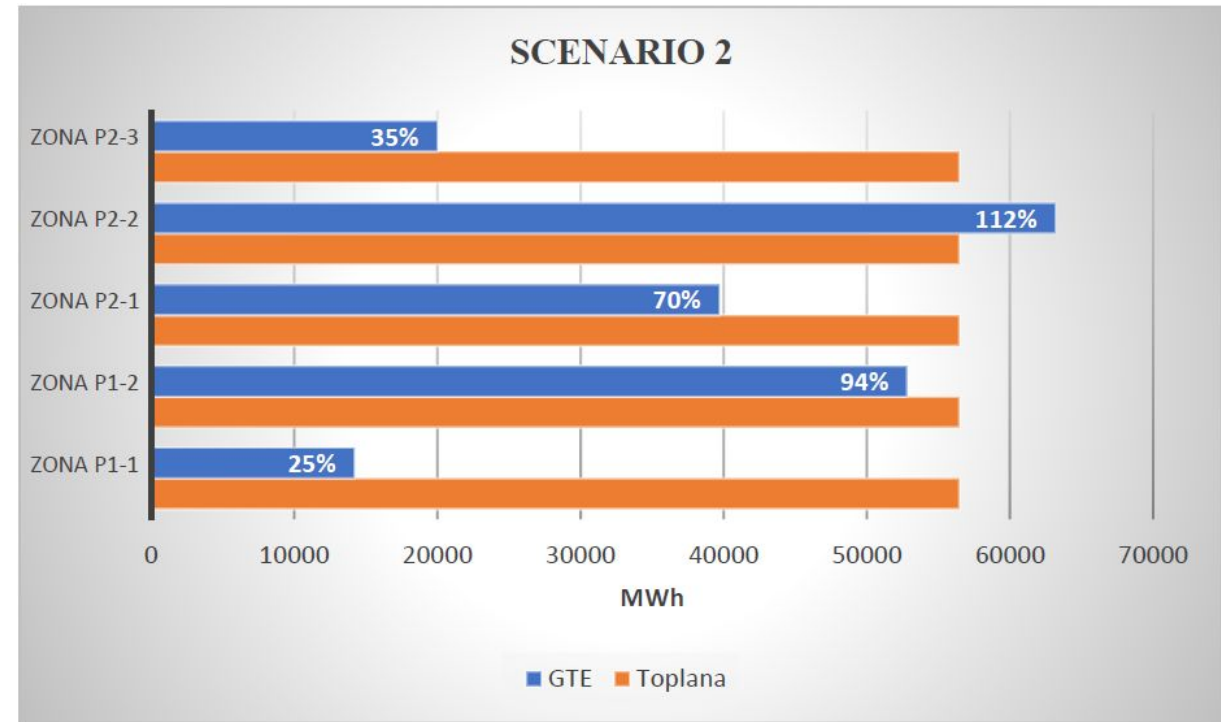
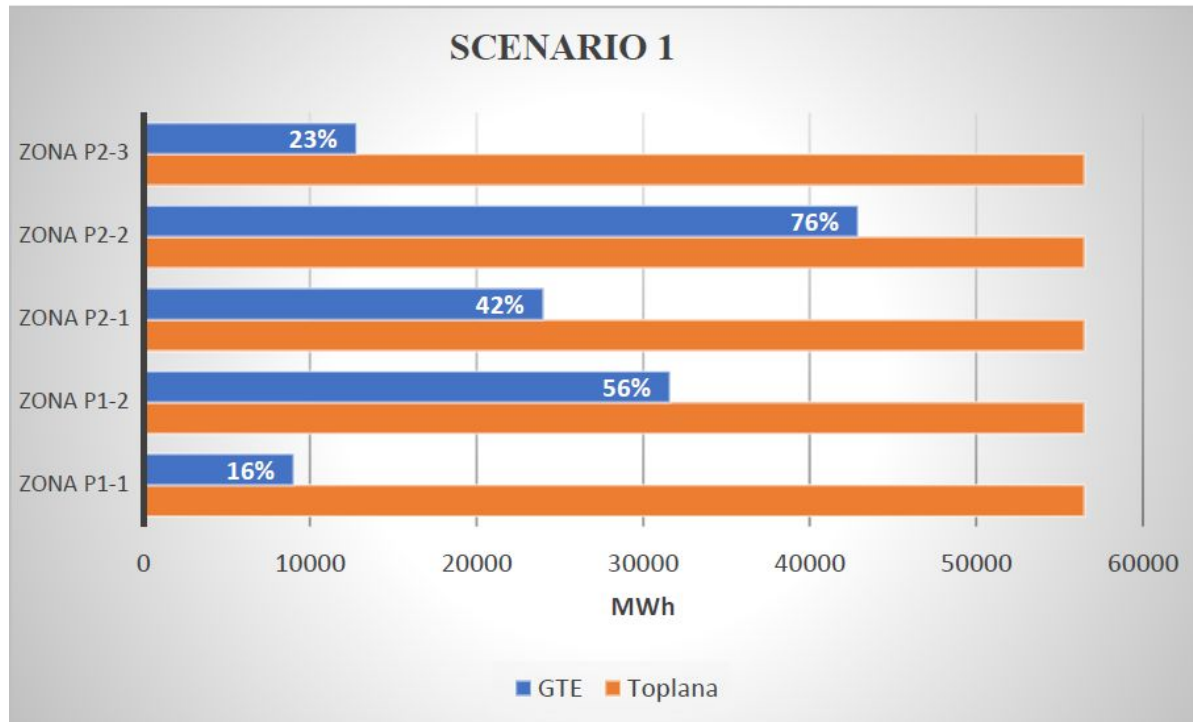
Estimated available heat energy from the geothermal resources within the particular zones (MWh)

Zone	Scenario 1 (Base Case)	Scenario 2 (Upside Case)
P1-1	≈ 9.030	≈ 14.220
P1-2	≈ 31.600	≈ 52.820
P2-1	≈ 34.000	≈ 39.730
P2-2	≈ 42.880	≈ 63.200
P2-3	≈ 12.790	≈ 60.020

- The calculations are divided into two scenarios. Scenario 1 implies moderate estimates of the amount and temperature of geothermal resources and is followed by a lower degree of risk, while Scenario 2 implies the maximum expected amount and temperature of geothermal waters. Scenario 2 is actually a "best case scenario" and is accompanied by a slightly higher degree of "research risk".

Expected Results (Relative To Current System)

Geothermal resources potential according to the production of thermal energy in the local district heating system ('Toplana')



*Zones P1-1 & P1-2, the potential geothermal zones directly below the **Heatplant**. Furthermore, if all potential geothermal zones were proven and developed, local heat production capacity could be increased by 2.4 - 4.1x **...AND BE 100% RENEWABLE***

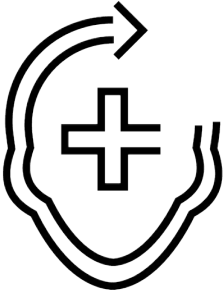
Potential Results (CO₂ Avoidance)

In the year 2020. heat plant “Valjevo” produced
56.447MWh → 11.500t CO₂

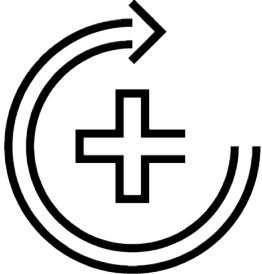
Potential avoidance of local CO₂
emissions and air pollution
(Tonnes CO₂)

Zone	Scenario 1 (Base Case)	Scenario 2 (Upside Case)
P1-1	1.840 t	2.875 t
P1-2	6.440 t	10.810 t
P2-1	4.830 t	8.050 t
P2-2	8.740 t	11.500 t
P2-3	2.645 t	4.025 t

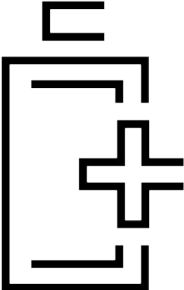
Thank you



ReTHINK
Mining



ReSTORE
Confidence



ReCHARGE
Economies

www.eurolithium.com
www.eurolithium.rs
info@eurolithium.com



EURO
LITHIUM+
BORATES+

SUSTAINABILITY REPORT
FISCAL YEAR 2022