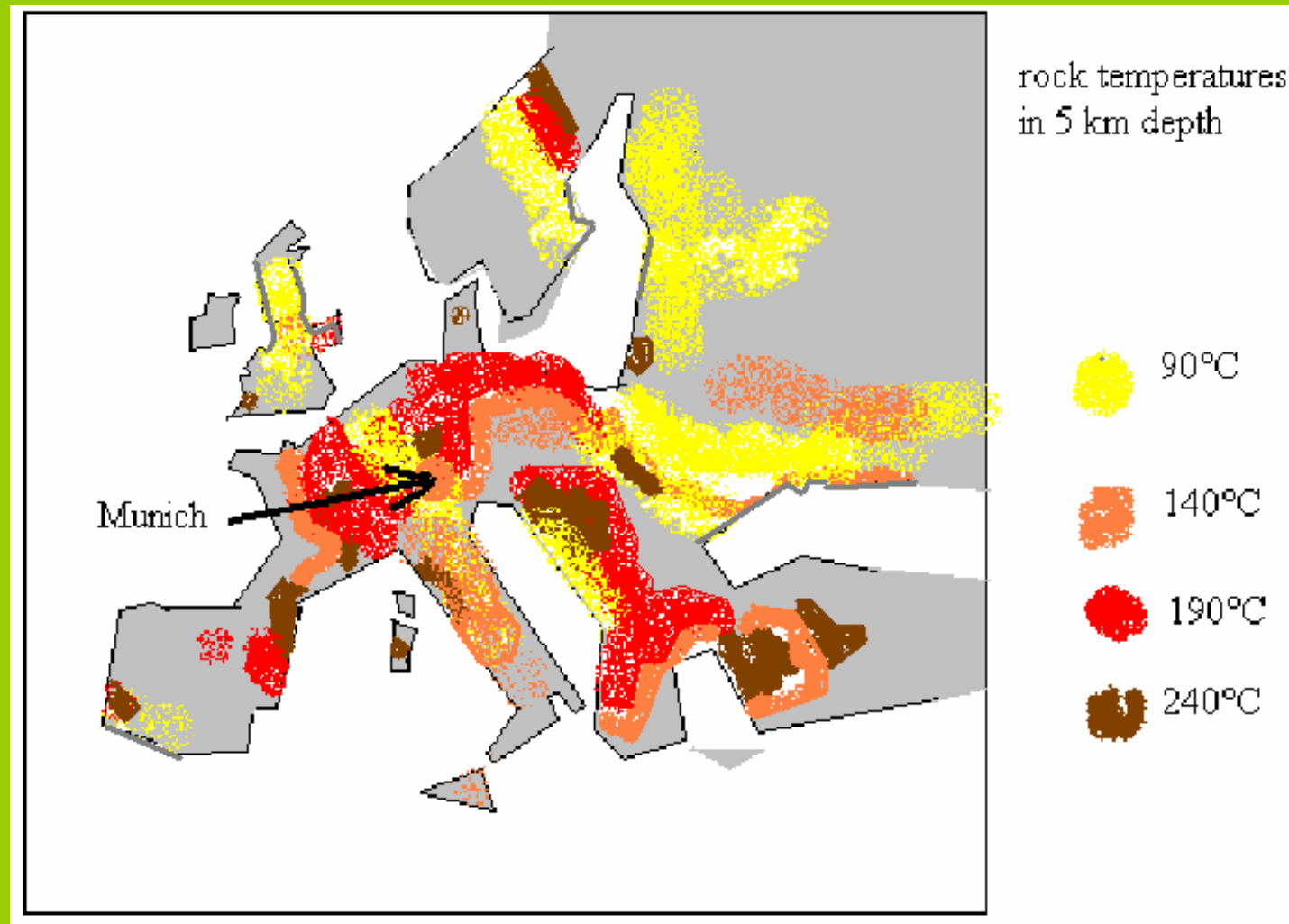


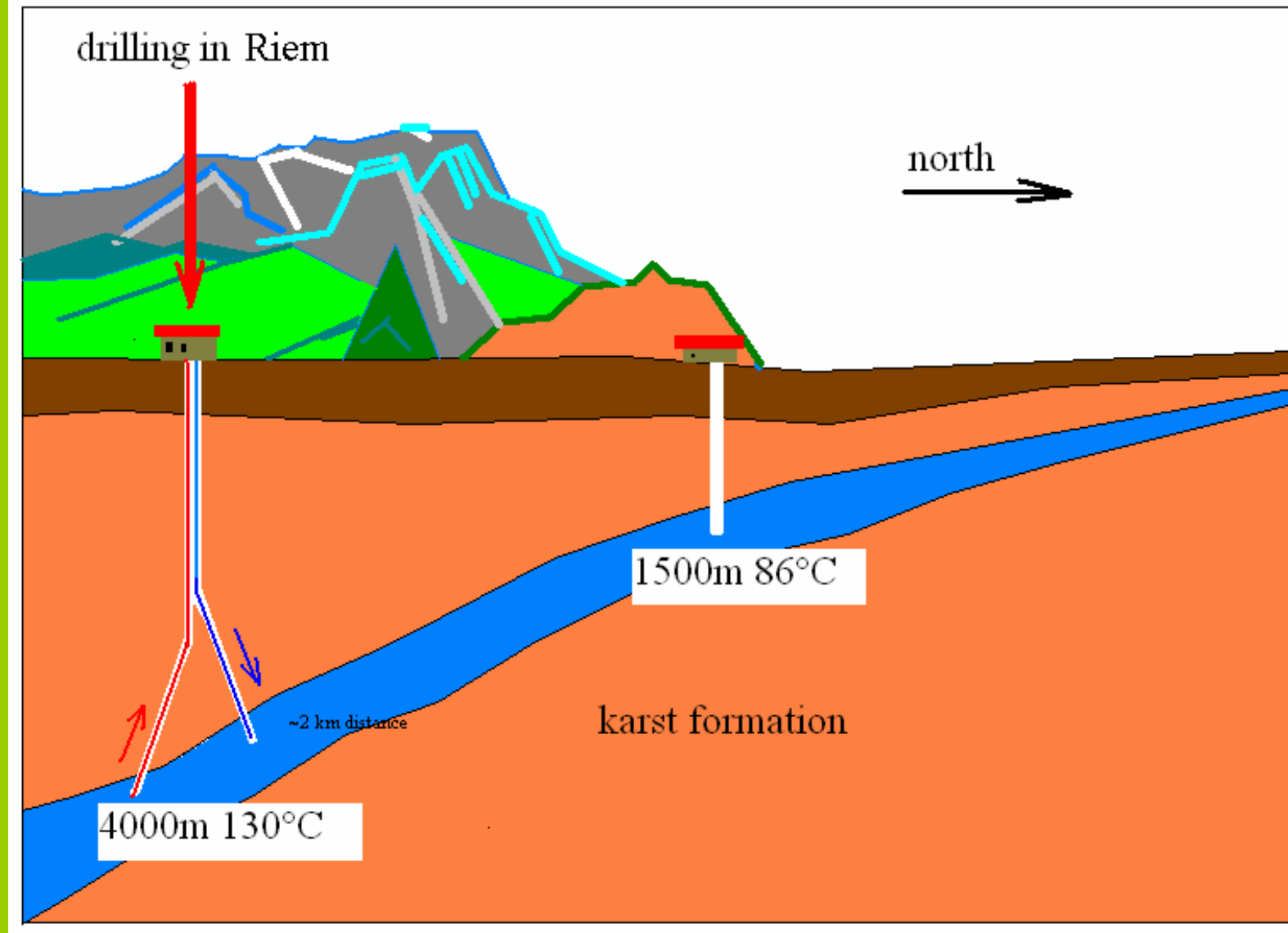
geothermal energy

The heat of the earth is a quasi-inexhaustible source of energy that generally does not produce greenhouse gases. Geothermal energy has been used globally since the beginning of the 20th Century.

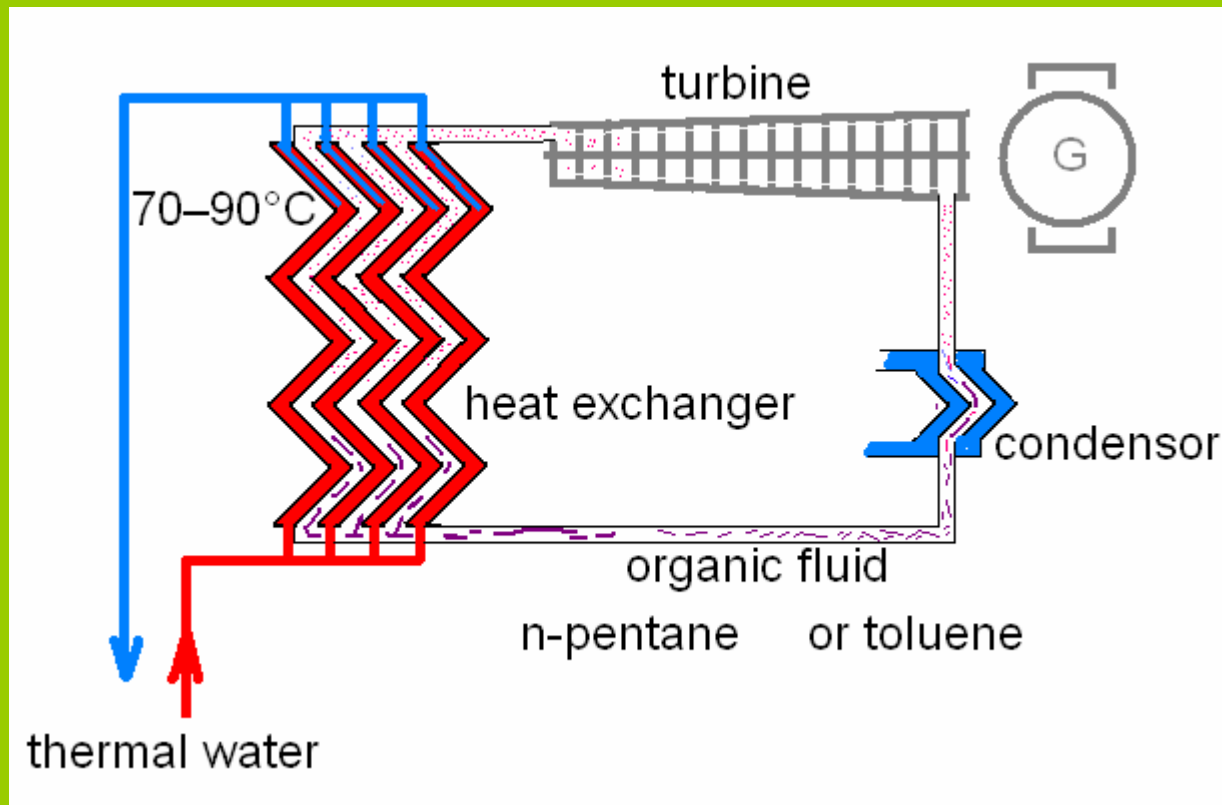
rock temperatures in 5 km depth



vertical section in the south of Munich



A plate heat exchanger uses two metal plates to transfer heat between two fluids. The fluids are exposed to a very large surface. It was invented in 1923 and revolutionised the methods of indirect heating of fluids.



- The efficiency of a Rankine cycle is usually limited by the working fluid. Without the pressure reaching super critical levels for the working fluid, the temperature range the cycle can operate over is quite small: turbine entry temperatures 98°C and condenser temperatures are around 30°C . This gives a theoretical efficiency of about 60% compared with an actual efficiency of 42% for a modern coal-fired power station.
- The working fluid has a low boiling point and follows a closed loop and is reused constantly.

result:

It's worth to drill here!