

GEO THERMAL PROJECT ASPERN

Geothermal Heat for Vienna

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Agenda

- Project Background
- Geological Setting
- Hydrothermal Potential
- Geothermal Plant Aspern
 - Location
 - Project Data
 - Operating Scheme
 - District Heating System Vienna



Project Background

- OMV exploration well ASPERN 1 (1974)
→ *discovery of the geothermal reservoir*
- Urban development project „Seestadt Aspern“
→ *geothermal energy for district heating*
- Feasibility study (2006)
→ *evaluation of the geothermal potential and its economical use*
- Geothermiezentrum Aspern GmbH (2007)
→ *realisation of the geothermal project*

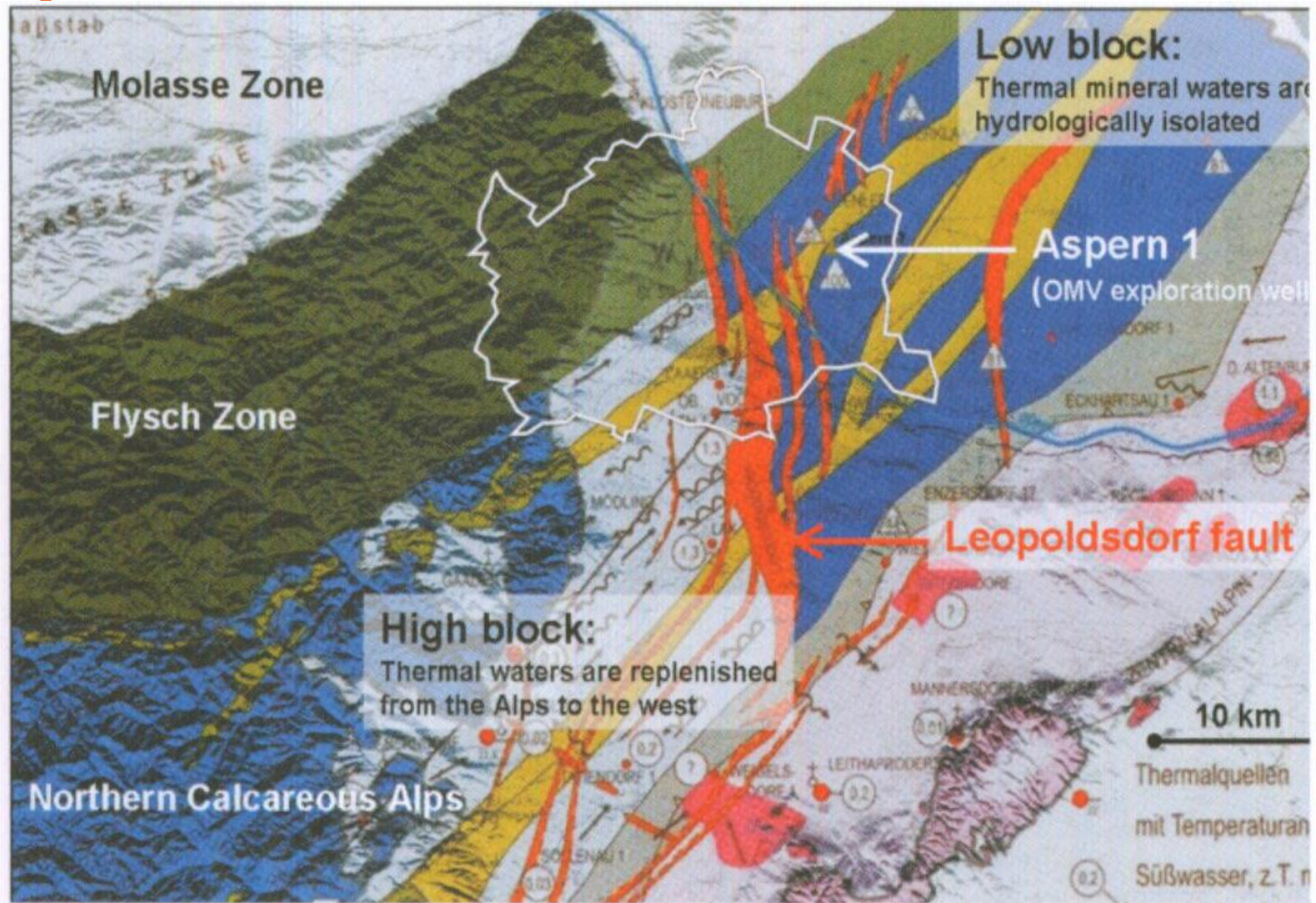


Geological Setting: Vienna Basin



[W. Straka & J. F. Schneider, 2007]

Hydrothermal Potential: Vienna Basin



[W. Straka & J. F. Schneider, 2007]

Geothermal Plant Aspern



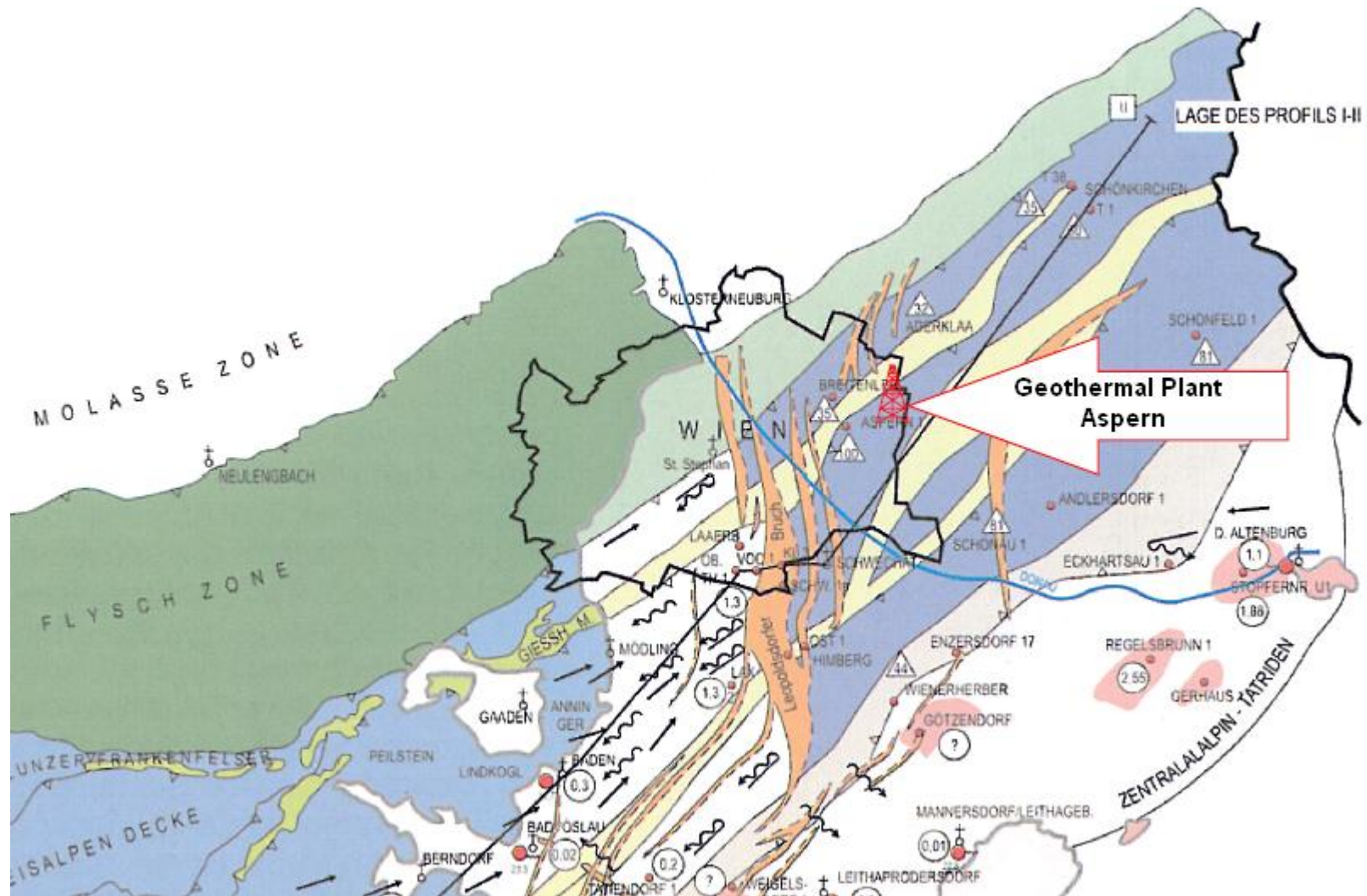
Architekt Martin Kohlbauer

visualisierung: (c) www.beyer.co.at



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Geothermal Plant Aspern - Location



[G. Wessely, 2006]

Project Data

Reservoir

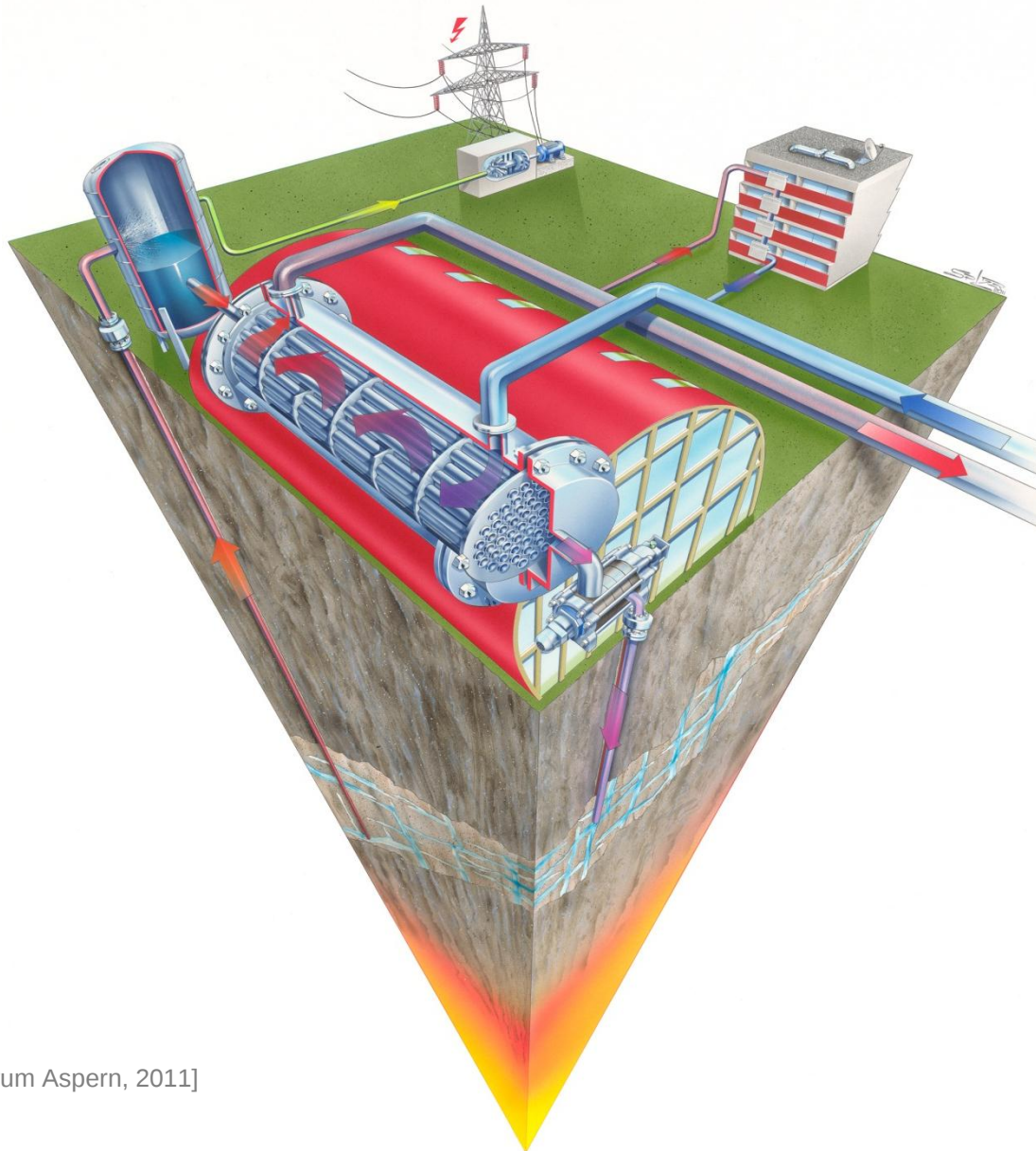
Reservoir rock	Hauptdolomit (Thickness: 1.000 – 1.500 m)
Production depth	5.000 m
Formation temperature	~ 150 °C
Production rate	~ 100 l/s
Formation water	Highly mineralized & small amount of dissolved natural gas

Project

Purpose	Geothermal heat for district heating
Installed Capacity	~ 40 MW (Austrias largest geothermal plant)
Investment	45 Mio. €
Beginn of operation	2014

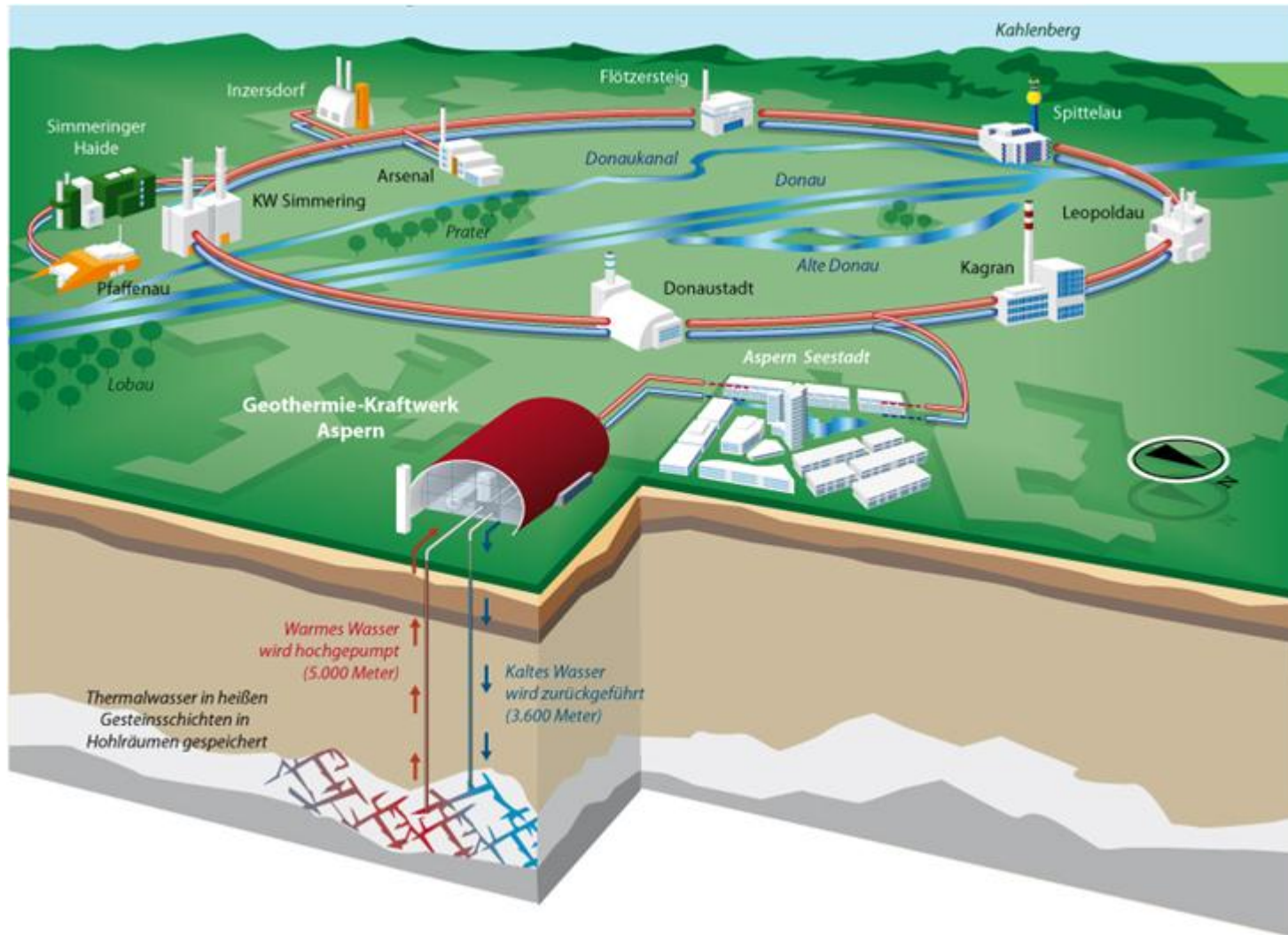


Operating Scheme



[Geothermiezentrum Aspern, 2011]

District Heating System Vienna



[Geothermiezentrum Aspern, 2011]



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***Thank you for your
attention!***

