

Geowissenschaftliches Kolloquium

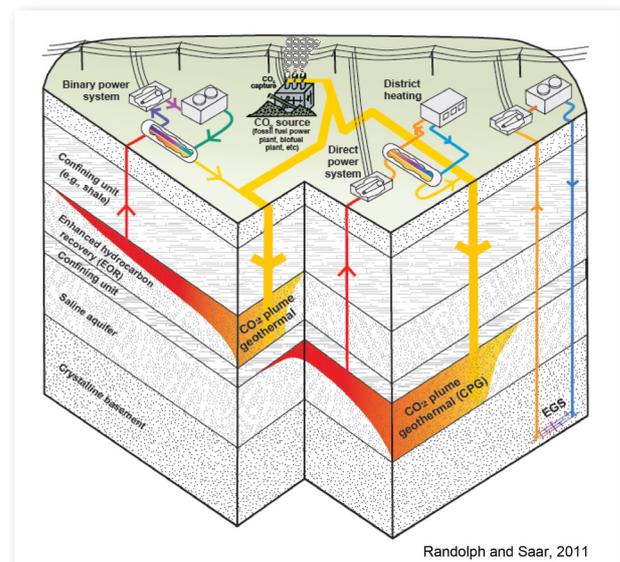
A world beyond enhanced geothermal systems: Alternative unconventional geothermal energy utilisation

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The efficiency of geothermal energy conversion is increased with new technologies such as using CO₂ as the working fluid within the reservoir and the power plant. Another method to boost energy conversion efficiency is to use the geologic reservoir as a pre-heater to then superheat the produced fluid before it enters the turbine. In this presentation, I will show numerical modeling results that illustrate under what conditions these methods are favorable compared to standard water or brine based geothermal systems.



Martin Saar is Professor/Chair of Geothermal Energy and Geofluids at ETH-Zurich. He investigates geophysical fluid dynamics of reactive fluid and energy transfer. He received his Vordiplom from the University of Freiburg, M.S. degree from the University of Oregon, and Ph.D. from UC-Berkeley. From 2005 through 2014, he was the Gibson Chair of Hydrogeology and Geofluids at the University of Minnesota.

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