



Joint session WP 1 “Corrosion and Scale Inhibition” and Taskforce “Corrosion in Green and Low Carbon Energy Technologies”

Corrosion and scale inhibition in geothermal energy technologies

For the reduction of greenhouse gas emissions, investment in the infrastructure of green energy sources is necessary. Geothermal energy is one of the promising ways to achieve this objective by delivering thermal and electrical power. In the coming years, driven by the urgency to decouple from more conventional energy sources, this number is predicted to rise considerably (e.g., ~ 174 TWh in 2030), with significant exploitation being expected. However, due to the high corrosiveness and scaling ability of geothermal fluids, the selection of appropriate metallic materials and inhibitors is a big challenge for the safe and reliable development of this carbon-free energy source.

This joint session between WP1 “Corrosion and scale inhibition” and Taskforce “Corrosion in green and low carbon energy technologies” will focus on knowledge of corrosion, scaling, inhibition mechanisms and their application for reliable developments of geothermal energy production.