



## **The Injection Facility at Ketzin: Technical Installations & Operation**

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The injection facility consists of 5 main plunger pumps (0...1.000 kg/h), a heating device (305 kWel.) and two intermediate storage tanks (50 to, each). One additional smaller pump has been installed to allow for smaller injection rates (around 300 kg/h). The facility is designed to implement a CO<sub>2</sub> stream of 300 kg/h to 3.250 kg/h (200 kg/h stepwise) at 50 °C at the heater outlet, resulting in a maximum amount of 78 to per day. An overall control and automation system is in place for steering the entire injection process and monitoring the relevant parameters (i.e. CO<sub>2</sub> flow, temperature along the injection string, pressure data from the formation and the wellheads etc.). All emergency shut-down (ESD) functionality is software independent and has been certified by local authorities and technical control boards.

Besides the presentation of of the technical facilities the talk will give an overview on the legal organisation of the injection operation and will light on so far experienced wellbore and reservoir behaviour.