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implemented in this platform, including (1) an improved equation of state for CO<sub>2</sub>-CH<sub>4</sub>-H<sub>2</sub>O-NaCl system which considers the effect of salt on phase partition and fluid properties in gas reservoirs; (2) a modified coupling approach for the simulation of hydraulic fracturing in tight geo-

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including CO<sub>2</sub> enhanced gas recovery (EGR) in the Altmark natural gas field; (2) Hydraulic fracturing in three different types of georeservoirs (tight gas, oil and geothermal reservoir); (3) Geothermal energy utilization induced seismicity in Unterhaching. The

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developed models and the numerical platform can be used to predict the coupled THM/C behavior of rock formations, to optimize the CO<sub>2</sub>-EGR and hydraulic fracturing in tight geo-reservoirs, as well as reduce the geo-risks related to geo-energy production.

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