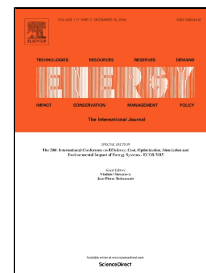


# Accepted Manuscript

CO<sub>2</sub> Injection for Geothermal Development Associated with EGR and Geological Storage in Depleted High-Temperature Gas reservoirs

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1. High-temperature gas reservoirs (HTGR) have huge geothermal potentials.
2. The novel concept of CO<sub>2</sub>-HTGR geothermal system has been proposed.
3. CO<sub>2</sub>-HTGR geothermal system has excellent heat mining performance.
4. An effective CO<sub>2</sub> HTGR can be established through EGR and pressure recovery.
5. The quality of established CO<sub>2</sub> HTGR affects the heat mining performance significantly.

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