



## Sustainable Energy Production from Subsurface Geological Formations

Guest Editor:

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### Message from the Guest Editor

Dear Colleagues,

The exploitation of oil, gas, and geothermal reservoirs is usually associated with the emission of greenhouse gases. In past decades, CO<sub>2</sub> storage has been considered a viable approach to alleviate the issues linked to fossil fuel production. Although many reports have attempted to address the impact of CO<sub>2</sub> injection on the optimization of oil and gas production, holistic approaches are required for studying systems under CO<sub>2</sub> storage. Technical aspects as well as socio-economic impacts should be revisited in light of recently raised challenges such as net zero targets defined by policy makers. Therefore, technical and socio-economic challenges should take several sustainability aspects into account simultaneously in order to support the reduced emission management of oil and gas operations and to avoid energy insecurity by an abrupt shift to renewable energy resources.





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