



## Reference Module in Earth Systems and Environmental Sciences

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# Geothermal Energy Application in Power Generation

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## Abstract

Because of larger potential and continuous flow, geothermal energy has emerged as one of the preferred renewable resources for power generation. Geothermal heat-driven power generation technologies are also well established. The dry steam geothermal cycle flash steam geothermal cycle, binary geothermal cycle and combined flash-binary geothermal cycle are the conventionally employed thermodynamic power cycles for geothermal power generation. Working principles of these conventionally employed geothermal power cycles are summarized in the present chapter. Besides these conventional cycles, a few recently reported advanced layouts of geothermal power cycles are also presented with relevant techno-economic outcomes.

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