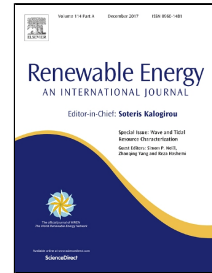


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Geothermal Resource Assessment using Experimental Design and Response Surface Methods: the Ngatamariki Geothermal Field, New Zealand

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Highlights

- Experimental design and response surface methods are applied to geothermal resource assessment.
- The Ngatamariki dual-porosity reservoir model with constant extraction was used as a case study.
- Widely available software applications were used to demonstrate workflow practicability.
- Designed numerical model experiments minimized the number of reservoir simulations required.
- Response surface methods enabled Monte Carlo probabilistic analysis.

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