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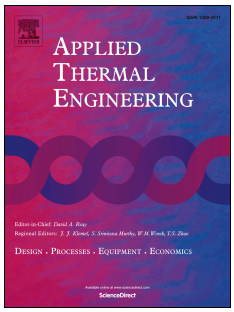

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Effect of the fuel type on the performance of an externally fired micro gas turbine cycle

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Highlights

- Simulation of an externally fired gas turbine prototype was carried out.
- Increasing the fuel inlet temperature increases the electrical power output (P_{el}).
- Methane addition did not show a significant effect on the electrical power output.
- The fuel composition did not affect P_{el} for a fixed heat-exchanger temperature limit.
- P_{el} slightly reduces at high hot side pressure drops in the heat exchanger.