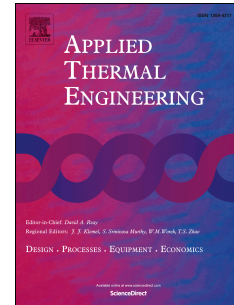


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Effect of the fuel type on the performance of an externally fired micro gas turbine cycle

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18 **Highlights**

- 19
- 20 • Simulation of an externally fired gas turbine prototype was carried out.
 - 21 • Increasing the fuel inlet temperature increases the electrical power output (P_{el}).
 - 22 • Methane addition did not show a significant effect on the electrical power output.
 - 23 • The fuel composition did not affect P_{el} for a fixed heat-exchanger temperature limit.
 - 24 • P_{el} slightly reduces at high hot side pressure drops in the heat exchanger.
- 25
- 26

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