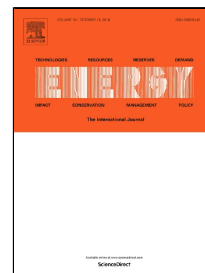


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A plant for methanol and electricity production: technical-economic analysis

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1 **A plant for methanol and electricity production: technical-economic analysis**

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6

7 **Nomenclature**

8 CMEPP

9 combined methanol-electricity production plant

10 IRR

11 internal rate of return

12 SCACP

13 System of Computer-Aided Construction of Programs

14 SLFs

15 synthetic liquid fuels

16 B

17 annual coal consumption

18 $C^F, H_2^F, O_2^F, N_2^F, S^F$

19 composition of coal at the gasifier inlet

20 C_f

21 price of coal

22 C_e

23 price of electricity

24 C_m

25 methanol cost

26 dG_{CH_3OH}, dG_{CO}

27 number of kilomoles of CH₃OH and CO formed in the layer per unit of time

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