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Wood-pyrolysis oil as fuel in a diesel-power plant

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Abstract

Flash-pyrolysis oil is projected as the most competitive liquid fuel from biomass. The use of pyrolysis oil as a diesel-power-plant fuel is studied. Pyrolysis-oil fuel characteristics are analysed, the oil is employed as fuel in a test diesel engine, and the economics of the system are analysed. The diesel-power-plant concept has several advantages, especially in small-scale production. The concept has several technical uncertainties, which are addressed in a research project.



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Keywords

Flash; pyrolysis oil; diesel engine; electricity

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