

CLEAN CHEAP AND COMPACT (3C) POWER GENERATION SYSTEM FOR MOBILE AND PORTABLE APPLICATION: PEM FUEL CELL

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ABSTRACT

The main objective of this paper is to develop a PEMFC for mobile and portable application using methanol as the fuel sources. From the economic view of point, this design is very competitive with conventional internal combustion engine, ICE. The advantage of fuel cell usage is able to reduce the environmental pollution as well as the world demand of fossil fuels. The electricity cost was calculated as RM 0.16kWh⁻¹ compared to the current existing cost of TNB as RM 0.218kWh⁻¹

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