

A Study on the Design and Fabrication of Dry Cell Electrolysis Setup for Hydrogen Generation



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Abbreviations

KOH	Potassium Hydroxide
H ₂	Hydrogen
O ₂	Oxygen NO _x : Oxides of Nitrogen
CO	Carbon-monoxide
CO ₂	Carbon-dioxide
CNG	Compressed Natural Gas
LPG	Liquefied Petroleum Gas
DC	Direct Current
PWM	Pulse Width Module

1 Introduction

Many environmental concerns were caused by air contaminants such as CO and NO_x and international concern for its regulation, and restriction was raised. Alternative fuel is the only way to reduce emissions from IC engines. Many alternative fuels are there in the World. Some of the alternative fuels are Compressed Natural Gas (CNG), Liquefied Petroleum Gas (LPG), Dimethyl Ether (DME), Gas to Liquid (GTL), and hydrogen [1–3]. From that, hydrogen fuel is used to reduce the emission. Hydrogen fuel can be generated by using various methods like steam method, electrolytic method, biological process. For our project, an electrolytic method is used

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P. Verma et al. (eds.), *Advancement in Materials, Manufacturing and Energy Engineering*,
Vol. II, Lecture Notes in Mechanical Engineering,
https://doi.org/10.1007/978-981-16-8341-1_38