

## **EVALUATION OF PEM FUEL CELL**

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### **Abstract**

This paper explains the basics thermodynamic analysis, performance variables (temperature, pressure, gas composition, reactant utilization, current density) , conceptual design and fabrication of the proton exchange membrane fuel cell (Water management and materials used for electrodes and MEA) and a simple experiment and calculation is done to determine the volume of hydrogen and oxygen formed by electrolysis process, relationship between gas formation rate and light intensity and ideal cell potential is a function of reactant pressures of the small working model of a fuel cell power car.

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Keywords :- Electrolyser, PEMFC, MEA