International J. of Engg. Research & Indu. Appls. (IJERIA).
ISSN 0974-1518, Vol.6, No. II (May 2013), pp 29-42

DESIGN AND IMPLEMENTATION OF SWITCHED RELUCTANCE GENERATOR FOR RENEWABLE ENERGY APPLICATIONS

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Abstract

The main advantages of the renewable energy are clean, economy and continuous energy. The objective of this paper is to design a Switched Reluctance Generator (SRG) for wind generation application. The study is based on the machine parameters like inductance, flux linkage, torque, output power and speed. Performance analysis has been carried out using Finite Element Analysis (FEA). The predicted results show SRG has the optimal choice for wind generation application. Experimental setup is made to valuate the predicted results.

Keywords : SRG, FEA, Renewable Energy.