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**EFFECTIVE UTILIZATION OF RENWABLE AND NON-
CONVENTIONAL ENERGY SOURCES IN SOUTH INDIA****M. ArumugaBabu*, D. Citharthan, S. Dhanalakshmi, M. Poornima,
B. T. Tharanisrisakthi**Department of Electrical and Electronics Engineering, Christ the king Engineering College, karamadai,
Coimbatore – 641 104, India**Abstract**

The Micro-Grid in south India concept using blended mixture of different renewable energy sources is a building block towards the future energy networks for Long-term viable solution of energy crisis including alternate to the plants using radioactive materials as a fuel by taken into the consideration of fishermen plea of not exploiting natural sea resources because of lot of wind potential, solar energy and tidal throughout the year. The focus of the paper is aimed around the encountered and foreseen issues, enabling Innovative technologies and power system economics for encouraging the deployment of Micro-Grids in south India with the higher efficiency of whole system. The leading power firms in these renewable energy area and the associated problems like reactive power compensation etc., are studied for the feasible solution. This paper presents state-of-the-art practical issues and feasible solutions associated with the deployment of Micro-Grid technologies leading to the conceptualization of efficient and smart Micro-Grids with soft computing provision. The role of enabling technologies, automation and communication for sustainable development of Micro-Grids is also addressed here.

Keywords: *Micro-Grids, Sustainable Development.*



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