

# Energy Saving using Green Cloud Computing

Vishwas K R<sup>1</sup> and Prasanna Kumar D C<sup>2</sup>

Department of Electronics and Communication Engineering  
SJC Institute of Technology, Chikkaballapur, India

**Abstract:** *Cloud computing focus on the data computing efficiency whereas green cloud computing is a new thinking which is based on cloud computing architecture and focuses on the energy efficiency of device and computing. Green Cloud Computing is an approach used to improve the utilization of computing resources those are being used in cloud computing network such as storage, servers, its application, and services and reduce energy consumption of these resources which improves power efficiency. This is done by various technologies such as virtualization and virtual machines migration. This paper reviews the various techniques purposed by the different authors to make cloud computing more energy efficient. The main objective of this paper is to study and analyse the concept of energy efficient data centre architecture, resource allocation and optimization.*

**Keywords:** Cloud Models, Energy saving, Cloud Computing, Computing Servers, Cloud deployment models, Cloud services models, Networks, PaaS, IaaS, DaaS, Digital Equipment, Cloud Communication