



A Review of Power Loss Minimization in Transmission Lines using Optimization Methods

Nitin Patil
nitinsagar71@rediffmail.com

Dr. Girish A. Kulkarni
girish2267252@gmail.com

Abstract –Flexible AC Transmission System (FACTS) is being approached to improve the performance of transmission and interconnection networks. Numerous studies have been made recently on these systems concerning the increase of the speed of control of the parameters of the lines (voltage, impedance and phase shift). Shunt and series offsets using power electronics systems are FACTS concepts and allow the networks to be more flexible. This paper presents an overview of power loss optimization along with the use of metaheuristic methods used to minimize the power loss.

Keywords – FATCS, Metaheuristic Methods, STATCOM, TCSC, etc.