

Saso Saltirovski
ESM, Skopje
Vlastimir Glamocanin
Vesna Borozan
Electrotechnical Faculty, Skopje

OPTIMIZATION OF POWER FLOWS IN ELECTRIC POWER SYSTEM OF MACEDONIA

ABSTRACT

The possibilities for power flow optimization are presented in this paper, investigating in details operation of power system of Macedonia focusing on minimum active power losses criterion. Optimal solution is due to of power plants redispatching and interconnectivity transformers (400/x kV/kV) tap ratio changing. Optimal power flow analysis is made for current state of Macedonian power system concerning winter peak in the year 2002.

Keywords: optimization, losses minimization, regulation, reactive power, objective function, constraints.