

Dimitar Stojanov  
Borko Aleksovski  
Electric Power Company of Macedonia – Headquarters, Skopje

## **THE BALANCE BETWEEN DEMAND AND PRODUCTION OF ELECTRICAL ENERGY IN REAL TIME**

### **ABSTRACT**

Electric Power Company of Macedonia is a part of large interconnection UCTE, and operates as a control area in this interconnection. Since September of 1991. UCTE network has been separated in two synchronous zones, because the war in Balkan region. Power system of Macedonia together with power systems of Serbia and Montenegro, Republic Srpska, Greece, Albania, Bulgaria and Romania form Second UCTE synchronous zone, which is separated from the main part of UCTE network.

Electric power systems of Macedonia Serbia, Montenegro and Republic Srpska are members of JIEL control block, coordinated by EKC in Belgrade. For keeping the balance between demand and production one of tasks which members of JIEL control block fulfill together is a load frequency control.

In this paper is described the organization of load frequency control and observation of the quality of control.

**Keywords:** Power system, interconnection, frequency, demand, production.