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## **APPLICATION OF SCADA IN DISTRIBUTIVE SUBSTATION**

### **ABSTRACT**

A great number of companies, which are the owners of power system equipment (voltage level of 35, 20 and 10 kV), especially distribution branches of ESM need utilization of sophisticated control units which will increase the level of protection, reliability and efficiency. On the other hand the process of industry deregulation has placed greater emphasis on the availability of information, the analysis of this information, and the subsequent decision-making to optimise system operation in a competitive environment. The challenge facing utilities is determining a standard integration structure that meets the utility's specific needs, can extract the desired operational and not operational information and deliver this information to the users who have applications to analyse the information.

Data acquisition depends on an integrated combination of software and hardware. Substation supervision and control (SSC) includes the following functions: Database management, User interface management, Data acquisition and processing, and Supervisory control.

**Keywords:** SCADA, Control of distribution substation, Power market.