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SIMULATION OF THE ELECTRICTY MARKET IN THE REPUBLIC OF MACEDONIA

ABSTRACT

Many countries around the world are facing a process of power system deregulation. With the process of power system re-structuring new conditions for competition are created, first on a production level and then, on a consumption level and new possibilities for free choice in supplying energy and open access are offered. Electricity market is created and low electricity price is expected. In this paper, simulation of electricity market in Macedonia is presented, with use of ELMAS (Electrical Market Simulator), computational tool which was developed within the Energy Policy Lab, Faculty of Electrical Engineering in Ljubljana. The day-ahead electricity market simulator enables simulation of trading electricity on a day-ahead electricity market and decentralized market model is considered. The computation is done on hourly basis therefore hourly market clearing price, the corresponding power plants productions, export and import from neighboring power systems and participant's profit are obtained as an electricity market simulation result.

Keywords: deregulation, electricity market, simulator.