

Aleksandar Paunoski holds a degree in Electrical Engineering from the Faculty of Electrical Engineering in Skopje, specializing in Power Engineering, which he completed in 2004. He continued his education with postgraduate studies in 2005 at the Faculty of Electrical Engineering and Information Technologies, specializing in Transmission and Distribution Systems, under the sponsorship of the TEMPUS project. He defended his master's thesis in 2008, with the topic: Optimization of Voltage and Reactive Power Conditions in the Electrical Power System of the Republic of Macedonia.

He commenced his professional career in 2006 at MEPSO, within the Strategic Planning and Analysis Department as a Development Analysis Engineer. Between 2010 and 2014, he led the Strategic Planning and Development Analysis Department. From 2014 to 2017, he served as the Director for Development and Investments at Power Plants of Macedonia and was a member of the Management Board. From 2017 to 2022, he worked as a Project Manager at MEPSO. Between 2022 and 2024, he served as a Development Analysis Engineer in an international consulting firm based in Germany.

Throughout his career, he has authored over 20 scientific papers both domestically and internationally, covering academic and scientific areas such as planning and development of transmission systems, development analysis for the implementation of renewable energy sources, and liberalization of electricity markets.

He was one of the authors of the Transmission Network Development Study, prepared by MEPSO in 2010, and participated in the development of the first 10-year European Transmission Network Development Plan. During the same period, he was among the authors who established the methodology and calculation of transmission capacities for the Southeast Europe region. From 2014 to 2017, he directed the Bogdanci Wind Farm project, which saw the commissioning of the first wind power plant in the country. During the same period, the revitalization of six hydroelectric power plants was completed, and the Bitola, Novaci, and Mogila District Heating Project was initiated.

In recent years, he has authored or co-authored numerous regional studies in the field of operation and management of electrical power systems.

Areas of interest:

- Development and investment plans for the transmission network
- Power flow analysis, voltage stability
- Reactive power compensation and management of electrical power systems
- Short circuit analysis and faults in EPS
- Dynamic models of the transmission network and transient stability
- Integration of renewable energy sources and battery systems
- Development and implementation of network codes for electricity transmission, preparation of EPS development plans, introduction of new methodologies, and calculation of transmission capacities, static and transient stability of EPS, voltage instability, and measures to overcome them
- Calculation of transmission capacities and congestion management in transmission systems.