

Collision
Reconstruction

Personal Injury

Electrical

Mechanical

Metallurgical

Civil & Structural

Fire & Explosion

Structural
Reconstruction

352 Consumers Rd.
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Maksym Tykhomyrov, B.Eng., M.Eng., P.Eng.

416-491-2525 (Ext. 32)

maksym.tykhomyrov@arconforensics.com

EXECUTIVE SUMMARY

Maksym has considerable experience as a power engineer with European utilities, and a specialization in electricity transmission and distribution. His credentials include Master's degree in Electrical Engineering, as well as numerous specialized courses in renewable energy and energy efficiency in Germany and Sweden.

In his capacity as a Forensic Engineer, Maksym specializes in electrical failures. He performs forensic analysis and investigation of losses in residential, commercial and industrial settings.

AREAS OF SPECIALIZED EXPERTISE

- *Power system and power generation equipment failure investigations*
- *Electrical component & electric motor malfunctions*
- *Electrical failures of plant & equipment*

EDUCATION

- M.Eng., Electrical Machines & Utilities (2002) East Ukrainian National University
- B.Eng., Electrical Engineering (2001) East Ukrainian National University
- Diploma, Wind Power Development & Use (2013) Life Academy Sweden

QUALIFICATIONS & CERTIFICATIONS

- *Professional Engineer (P.Eng.)*
- *Diploma of Advanced Training for Management Personnel of Power Companies (2013)*

PROFESSIONAL ASSOCIATIONS

- *Professional Engineers of Ontario*
- *Ontario Society of Professional Engineers*

PROFESSIONAL DEVELOPMENT

- *Efficient Energy Supply: Generation & Transmission, Renewable Energy Supply*
- *ISO 9001:2009, Quality Control Systems*
- *Capacity Works – Managing complex projects*
- *Control Engineers of Power Companies*
- *Working at Heights*

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PROFESSIONAL EXPERIENCE

Forensic Engineer, Arcon Forensic Engineers
(2018 – Present)

- Investigate the causes of failures within a variety of electrical equipment and installations

Technical Advisor, Deutsche Gesellschaft fuer Internationale Zusammenarbeit
(2016 – 2018)

- Developed and implemented strategies for energy efficiency measures in 15 hospitals, resulting in 10% reduction of related hospital energy consumption
- Organized and coordinated energy efficiency pilot projects/activities, workshops, networking events, contributed to publications and reports
- Provided professional technical advice and support to local municipalities and Ministry of Regional Development

Renewable Energy Analyst, UkrEnergo Consulting Ltd.
(2016)

- Elaborated business plans: photovoltaic systems (utility-scale) and small hydro power systems
- Prepared feasibility studies for two solar PV power stations of 24 and 13,5 MW installed capacity, and submitted relevant documentation for grant funding
- Researched and developed feasibility studies for private sector power stations with total capacity of 3 to 27 kW
- Conceptualized and prepared project proposal tailored to a wind power plant construction of up to 100 MW
- Updated feasibility studies for 6 small-scale diversion hydro power plants (up to 2 MW)

Head of Electric Power Unit, PJSC Holding Company Energoset.
(2014 - 2016)

- Coordinated and managed multiple energy projects
- Developed, enhanced and implemented energy efficiency projects and strategies for power consumption management, which enabled reduction of general power consumption by 5%
- Provided engineering expertise throughout development, construction, commissioning and operation of company's assets (approximate value of \$60 million)
- Designed action plan to reduce natural gas consumption at 2 thermal power plants by 10% in 2 years' period

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PROFESSIONAL EXPERIENCE

Head of Control Centre, Lugansk Energy Interconnection Ltd.
(2010 – 2014)

- Supervised operation of energy system and ensured it runs smoothly: 2.8 million customers, 40 thn km of different voltage classes power lines, 300 substations of 35 and 110 kV with installed transformer capacity 7 GVA.
- Developed, implemented and managed power system operating procedures to ensure distribution asset performance meets customer, regulatory, and corporate reliability and performance standards
- Supervised staff (50+ employees), ensured staff have appropriate skills level to perform tasks: developed, coached, monitored and managed performance, productivity. Conducted on-the-job trainings.
- Analyzed malfunction and failures in performance and technical breakdowns; elaborated efficient schemes and solutions to eliminate malfunctions; introduced monitoring protocols over the solutions
- Maintained effective communication with stakeholders for coordination of power system restoration
- Developed and enhanced the monitoring energy efficiency plans, which provided for optimization by 1 million kWh/year

Deputy Head of Control Centre, Lugansk Energy Interconnection Ltd.
(2008 – 2010)

- Conceptualized and designed a brand new local GIS, input data of all assets from 6 to 110 kV
- Reviewed and improved documentation for quality assurance in line with ISO quality management system requirements
- Prepared and conducted trainings and professional development for operational staff; interviewed new personnel

Control Centre Engineer, State Enterprise Regional Electricity Network
(2007 – 2008)

- Ensured a 24/7 real-time operational control over the power system of 110, 35, 6 kV, managing critical issues to support grid operation
- Coordinated requests for equipment outages with customers and related licensees
- Eliminated power system disturbances taking into account customers' categories

Control Centre Engineer, Lugansk Energy Interconnection Ltd.
(2002 – 2007)

- Effectively provided a 24/7 real-time operational control over power system
- Controlled the repair processes
- Eliminated power system disturbances