



## Dr. Eng. Elham Mohamed Mustafa Darwish

One of the prominent technical and administrative leaders in the Egyptian electricity sector, she served as the Vice Chairman of the Board of Directors of the South Cairo Electricity Distribution Company for the Cairo-Giza Electricity Distribution Networks.

### Work Experience



### My Contact



Maadi – Cairo – Egypt



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- Certified Consulting Engineer at the General Syndicate of Engineers in the field of electrical power distribution, member of the working group of the World Conference on Global Energy Networks CIRED WG, member of the Egyptian Society of Engineers
- Extensive experience in the design and planning of electricity distribution networks and transformer substations.
- Review the initial and detailed studies of infrastructure projects, and feed water lifting plants and wastewater treatment plants.
- Reviewing the assays and tender documents for the tenders of electricity projects on medium and low voltages in accordance with the Egyptian code and international standards.
- Review of Electrical Work Boards and Single Line Diagram & Load Flow Analysis Boards
- Supervising the implementation of medium and low voltage networks for cables, overhead lines, and tunnel propulsions for major projects such as feeding new city projects, electricity networks for industrial and commercial areas, residential and private communities.
- Developing existing distribution networks and improving the quality of feeding them according to international standards.
- Review the shop Drawing executive plans and make sure they match the approved design.
- Reviewing the maintenance work for electrical tasks in the distribution networks according to the approved specifications



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- Determination of cable segments, breaker values and protection devices in accordance with IEC-IEEE-NEC-Egyptian code international standards.
- Evaluate the technical status of the existing equipment and networks and prepare reports on the receipt of projects according to the specifications or not.
- Evaluating technical offers for suppliers and contractors.
- Analyze network performance using specialized simulation software and analyze the causes of voltage drop to address its problems, and solutions to improve power factor and reduce loss.
- Solar Renewable Energy Systems and their Integration with Grid Connectivity.
- Consulting, resolving technical problems, studying power flows and determining protection requirements.
- Develop occupational safety plans while working on electrical networks.
- Preparing and implementing training programs for engineers and technicians on operation and maintenance
- Effective coordination with all government administrative agencies, major engineering consulting offices and implementation companies.
- Participating in decision-making committees and specialized technical committees for the development and expansion of distribution networks, tenders and auctions.

## Previous areas of work

### Working at South Cairo Electricity Distribution Company:

- Head of Giza Distribution Networks Sectors
- Head of Sectors of Cairo Distribution Networks
- Head of Design and Self-Implementation Sector
- Head of Maadi Networks Sector
- Director General of Studies, Research and Development



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## Academic Qualifications

Ph.D. in Electrical Power Engineering – Ain Shams Engineering 2018  
under the title:

- Reactive Power Control For Voltage Fluctuations Mitigation and Power Loss Reduction under High Photovoltaic Penetration in the Egyptian Distribution Networks.

Master of Power and Electrical Machinery Engineering - Cairo Engineering 2012 under the title :

- Power Factor Correction in an Industrial Factory in the Existence of Rich Harmonics.

Bachelor of Engineering , Department of Electrical Power and Machinery Engineering , Menoufia University, 1984.