



## Prof. Dr . Amged Saeed El-Wakeel

One of the most prominent Egyptian experts in the field of nuclear energy and electrical engineering, he served as Chairman of the Board of Directors of the Nuclear Power Plants Authority from August 2017 until January 2025 and is considered one of the leading figures in the implementation of the Egyptian peaceful nuclear program, especially the strategic Dabaa Nuclear Plant project

### My Contact

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### Education Degree

- Ph.D. in Electrical Engineering , University of Manchester , UK (2000-2003)
- Visiting Professor , University of Idaho , USA (2013-2014)

### Educational Qualification

- Professor, Department of Electrical Power and Energy, Military Technical College , 2016
- Consultant Design of Electrical Works for Installations - 2008

### Current/Previous Position

- Chairman of the Board of Directors of the Nuclear Power Plants Authority (12/2017 - 1/2025)
- Chief Executive Officer of the Nuclear Power Plants Authority (8/2017 - 12/2017)
- Project Manager for the Construction of the First Nuclear Plant in El Dabaa (9/2015 - 8/2017)
- Head of the Department of Electrical Power and Energy , Military Technical College (1/2011 – 9/2015)
- Member of the Advisory Office – Military Technical College (1/2004 – 9/2015)
- Lecturer, Department of Electrical Power and Energy , Military Technical College (9/2003 – 1/2004)



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## Membership of International Nuclear Commissions/Bodies and Institutions

- Member of the Board of Directors of the New and Renewable Energy Development Authority – Representative of the Ministry of Defense (2013-2015).
- Member of the Board of Directors of the Remote Sensing Authority (2018-2022).
- Member of the Board of Directors of PGISCO (2017-2025).
- Member of the Board of Directors of Nile Valley Company (2023 – Present)
- Member of the Board of Directors of Electrical Power Systems Company (2017-2025).
- Member of the Board of Directors of the Egyptian Academy for Engineering and Advanced Technology, Ministry of Military Production (2021 - Present).
- Member of the Board of Directors of Delta Technological University (2021-2022).
- Founder and Chairman of Nawah Integrated Services Company – Nuclear Power Plants Authority (2024-2025)
- Member of the Egyptian Society of Engineers (1/2008 - Present)
- Member of the Standing Committee for the Updating of the Egyptian Code for the Principles of Design and Conditions for the Implementation of Electrical Connections and Installations in Buildings (12/2015 - Present)
- Member of the leadership selection committees at the Ministry of Electricity and Renewable Energy (2017-2025).
- Member of the Advisory Committee of the Electrical Engineering Division of the Egyptian Engineers Syndicate from July 2024 - Present
- WNA World Nuclear Association Board Member 2024 – Present
- Member of the SAGNE Standing Advisory Group to Nuclear Energy for the Director General of the International Atomic Energy Agency (IAEA) from 2023 - Present
- Representative of the Republic of Egypt in the Nuclear Energy Infrastructure Working Group (TWG-NPI) from 2017 to present at the International Atomic Energy Agency (IAEA).
- Member of the Egyptian team to participate in the activities of the 59-67 sessions of the General Conference of the International Atomic Energy Agency (IAEA) – Vienna – Austria (2015-2023)
- Member of the Egyptian Integrated Plan Review Team (IWP) at the International Atomic Energy Agency (2016-2024)



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- Member of the Technical Committee for the Preparation of Studies on the Use of Nuclear Energy for Peaceful Purposes (2006-2012) and Member of the Energy Committee (2014-9/2015)
- Member of the Committee for the Coordination and Follow-up of the Peaceful Uses of Atomic Energy (1/2015 - 1/2025).
- Member of the Steering Committee for the Management of the Negotiation File for the Operation and Construction of the Dabaa Nuclear Power Plant (1/2015 - 12/2017).
- Member of the Committee for the Study of Nuclear Conventions (2018-2025)
- Member of the Board of Directors of the Atomic Energy Commission (2017-2025).
- Member of the Board of Directors of the Nuclear Materials Authority (2022-2025).
- Member of the Leadership Selection Committees of the Nuclear Materials Authority (2018 - Present).
- Chairman of the National Committee for the Preparation of the Nuclear Infrastructure Self-Assessment (SER) Report to the IAEA 2019
- Chairman of the National Committee for the Reception of the Integrated Mission for the Review of the Infrastructure of the Arab Republic of Egypt 2019 (INIR)
- Chairman of the Security Committee formed by the Prime Minister's Decree 1501 of 2017 to secure the Dabaa Nuclear Plant (2017-2025).

## Scientific Fields

- Design and control of special electrical machinery.
- Preference Methods Using AI
- New and Renewable Energy
- Electrical Distribution and Network Design (Medium Voltage – Low Voltage – Low Current)

## Areas of Scientific/Engineering Application

### Consultancy Business:

- Carrying out engineering design works and participating in the preparation of publication documents for medium, low voltage and light current electrical works in many residential, commercial, industrial, sports facilities and facilities of a special nature (more than 50 projects).



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- Participating in technical inspections, engineering supervision and issuance of repair reports (more than 25 projects).
- Participate in the technical decision work and review of designs for major engineering projects
- Participation in negotiation and practice work with foreign companies for mega projects (Al-Arish Cement Factory – Contracting 3600 MW for the Urgent Plan for Summer 2015 – Contracting 13200 MW with Siemens – Contracts for the Dabaa Nuclear Plant Project)

## Scientific and Research Works

### Scientific and Research Works:

- Single-sided and multiple publication of more than 40 scientific articles in the field of design of special electrical machines and systems that operate in critical and faulty conditions in international and local journals and scientific conferences, in addition to two scientific books.
- Participation in (7) research papers on technical insurance for the benefit of the Armed Forces.
- Supervising several master's and doctoral theses (16 theses).
- Participation in the refereeing of master's and doctoral theses and scientific articles in a number of international journals and international conferences
- Participating in the development and review of Egypt's nuclear fuel supply strategy.
- Participating in the review of Egypt's strategy for the management of spent nuclear fuel, radioactive waste, and nuclear plant forecasting processes.
- Founder and Chairman of the Board of Directors of the Journal of Nuclear Energy (a quarterly magazine – issued by the Nuclear Plants Authority)

## Administrative and operational work related to the nuclear field

- Administrative and executive work related to the nuclear field:
- Developing the organizational structure of the Nuclear Plants Authority and establishing the Governance and Internal Audit Sector and the Quality, Safety and Occupational Health Sector 2017-2025.
- Developing administrative, financial, regulatory and policy laws and regulations for the Nuclear Power Plants Authority 2017-2024 (Law No. 210 of 2017 and Law No. 162 of 2023 and their regulations)



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- Participation in the Committee for the Drafting of Law No. 209 of 2017 on the Establishment of the Executive Authority for the Supervision of Nuclear Power Plants Construction Projects 2017
- Supervise the implementation and management of the nuclear project and achieve all the milestones related to the implementation of the nuclear project and the entry of all units into the construction phase in January 2024.
- Installation of a reactor core trap for all nuclear units in 2023-2024.
- Supervise, review and approve the design documents of the plant (basic design documents, detailed design documents, and design documents that correspond to the implemented reality) as well as all technical reports related to the implementation of the project.
- Follow-up on the implementation of quality plans for the manufacture of long-term nuclear plant components and achieve the highest standard quality standards in the plant's long-term equipment manufacturing activities (reactor core trap - pressure vessel - turbine generator - ..).
- Preparing and implementing plans to provide the necessary human resources for the implementation of the project and qualifying them to provide them with the necessary knowledge, experiences and skills to perform the tasks assigned to them optimally with high efficiency and accuracy.
- Supervising the approval of the basic design documents for the Dabaa Nuclear Plant in June 2022 for the first and second nuclear units, and in January 2023 for the third and fourth nuclear units.
- Supervise the fulfillment of all regulatory requirements to obtain the site acceptance permission, as the site acceptance permission for the four nuclear units was obtained on March 10, 2019, as well as the site acceptance permission for the spent nuclear fuel storage facility in February 2022.
- Follow-up and supervise the implementation and completion of the requirements related to the readiness of the start of operation of the Dabaa nuclear plant to meet all the elements of the safe and reliable operation of the nuclear plant based on the best international practices and recommended by international bodies and organizations such as the International Atomic Energy Agency (IAEA).
- Follow-up and supervise the implementation of the contractual obligations of the Nuclear Power Plants Authority in its capacity as the owner/operator of the Dabaa Nuclear Power Plant project under the signed contracts and the regulating laws.
- Monitoring and supervising the preparation of the Integrated Management System (IMS) in accordance with international standards and better





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- Practices in the nuclear industry, especially with regard to achieving the highest standards of quality and standards of nuclear safety and security. Leading the transformation towards the electronic management of the Authority to keep pace with the digital transformation to reach a paperless work system and establishing a system for the circulation of documents of the Authority, taking into account the requirements of cybersecurity and the degrees of confidentiality of the information contained therein, in a way that can be easily accessed and tracked accurately and quickly.
- Chaired the working group formed to prepare the "Review of the Nuclear Infrastructure of the Arab Republic of Egypt" report with the experts of the International Atomic Energy Agency (IAEA), which concluded positive results on the readiness and readiness of the nuclear infrastructure for the implementation of the Dabaa Nuclear Project in 2019.
- Participating in the preparation of the "Technical and Economic Feasibility Study on the Establishment of a Nuclear Power Plant in El Dabaa for Electricity Generation", in the parts related to the economics of using nuclear energy in electricity generation in Egypt and comparing it with other generation alternatives in the Arab Republic of Egypt and the Egyptian strategy for managing the financing risks of the nuclear project.
- Chaired the negotiation team with the Russian side to prepare contracts for the implementation of the Dabaa nuclear plant project for 2014-2017.
- Preparing and updating strategic studies and methodologies for plans to secure the supply of nuclear fuel to the Egyptian nuclear program in 2017.

## Awards and Certificates of Appreciation

- The best nuclear project in terms of starting and launching (Atom Expo 2019).
- Government Excellence Award as the Best Work Team - The Implementation Supervision Team of the Dabaa Nuclear Plant Project - (2020).
- A certificate of appreciation from the Minister of Electricity and Renewable Energy for the efforts made and achievements achieved by working within the Coordinating Committee for the Negotiation of Contracts for the Implementation of the Dabaa Nuclear Plant Project (2017).



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- A certificate of appreciation from the Minister of Electricity and Renewable Energy for the efforts exerted in chairing the working group formed by multiple ministries and security agencies to prepare a report and receive experts on the task of "Audit of the Nuclear Infrastructure of the Arab Republic of Egypt" with the experts of the International Atomic Energy Agency (IAEA), which concluded positive results on the readiness and readiness of the nuclear infrastructure for the implementation of the Dabaa nuclear project (2019).

## Medals and medals

- Military Duty Medal of the Second Class – First Lieutenant – 1992
- Silver Jubilee Medal for the victories of October – Captain – 1998
- Golden Jubilee Medal of the July Revolution – Raed – 2002
- Silver Jubilee Medal for the Liberation of Sinai – Presenter – 2007
- Medal of the Revolution of January 25, 2011 - Colonel - 2011
- Medal of Long Service and Good Example of the First Class - Colonel - 2012
- Medal of the Revolution of June 30, 2013 – Colonel – 2013
- Silver Jubilee Medal of the Engineering Authority – Dean – 2020
- Military Duty Medal of the First Class – Brigade – 2020