



المنتدى العربي السابع حول آفاق توليد الكهرباء وإزالة ملوحة مياه البحر بالطاقة النووية

**The Seventh Arab Forum on the Prospects of Nuclear Power for
Electricity Generation and Seawater Desalination**

Organized by the

**Arab Atomic Energy Agency and
Jordan Atomic Energy Commission**

**In Cooperation with the League of Arab States and the
Arab Ministerial Council of Electricity**

Dead Sea - The Hashemite Kingdom of Jordan, December 16-18, 2025

1 – BACKGROUND

Several Arab countries have expressed interest in incorporating nuclear energy into their electricity generation mix as well as seawater desalination, as part of their strategies to secure and diversify their energy supply sources. This interest is driven by factors such as the continuous increase in energy demand, energy being the driving force for economic development, water scarcity, diminishing oil and gas reserves and price volatility, and the desire to achieve energy security and independence. Nuclear power has proven its reliability in terms of safety and security, being an energy source with low greenhouse gas emissions, as well as its competitive operating cost compared to other sources of energy. This desire has been expressed clearly in many Arab Summit resolutions and included in “The 2030 Arab Strategy for the Peaceful Use of Atomic Energy”.

Most Arab countries lack the required knowledge, skills, workforce, and financial resources to construct and operate nuclear power plants to generate electricity or desalinate seawater. Therefore, they need to mobilize the scientific and technical workforce, establish and develop the necessary infrastructure to successfully implement their nuclear power programs.

The Arab Atomic Energy Agency, League of Arab States, represented by the Arab Ministerial Council of Electricity, and the Jordan Atomic Energy Commission are aware of the necessity to study and explore nuclear energy as a strategic option for Arab countries’ sustainable development as well as providing long-term energy and water security.

To support the Arab countries' needs for a better understanding to plan and integrate nuclear power into electricity generation and seawater desalination in their strategies to diversify energy sources, the "Arab Forum on the Prospects of Nuclear Power for Electricity Generation and Seawater Desalination" is periodically organized every two years. This forum focuses on the establishment of nuclear infrastructure for the construction of nuclear power plants, especially in terms of legislative and regulatory frameworks, human capacity building, nuclear security and safety, site selection and public acceptance. The previous six forums have had a clear and positive impact on raising awareness of nuclear power at both public and decision-making levels.

This seventh forum is a follow-up to the previous forums related to nuclear power programs in Arab countries. The present forum will enhance Arab cooperation and public understanding on key issues related to nuclear energy. This will cover the workforce needs and financial resources, comprehensive legislative and regulatory systems, as well as selecting the most suitable nuclear reactor technology, electrical grid compatibility, nuclear fuel cycle, radioactive waste management, site selection and public acceptance. It also provides an opportunity for many countries considering the potential benefits of introducing nuclear power into their national energy portfolios, to make informed decisions based on their national strategies regarding the construction of new nuclear power plants. Additionally, the forum will include discussion on nuclear fusion as a promising future source of clean energy.

The importance of the seventh forum comes at a time when some Arab countries, such as the Arab Republic of Egypt, United Arab Emirates, Kingdom of Saudi Arabia, and the Hashemite Kingdom of Jordan, have made significant progress in establishing their nuclear power programs, while many other Arab countries are considering introducing nuclear energy into their energy diversification strategies.

2 - OBJECTIVES

- Support the trend in Arab countries towards developing and using nuclear fission and fusion energy at the level of decision-makers and the public at large.
- Communication and discussion among specialists and decision makers in the Arab countries on the role of nuclear fission and fusion energy to meet the increasing demand for electricity and desalinated water.

- Information and experience exchange on national methodologies for the study of nuclear fission and fusion energy to qualify and develop human resources.
- Discussing the interrelation between nuclear fission and fusion energy and their environmental impact.
- Assessing the progress in reactor power technologies and safety, the management of low-level waste, spent (or used) nuclear fuel (SNF/UNF) and potential nuclear fuel supply chains.
- Evaluating the nuclear fission and fusion power programs in Arab countries and the prospects of collaborative programs.
- Evaluating the feasibility of deploying small modular reactors (SMRs) for electricity generation or seawater desalination in Arab countries.
- Establish “Citizens Advisory Panel” to address local communities concerns for nuclear power.

3- FIELDS, ISSUES AND KEY THEMES OF THE FORUM

- Policy development for nuclear energy and energy planning
- Nuclear power plant technologies
- Small modular reactors
- Nuclear fusion energy
- Nuclear fuel cycle, supply chain complexity and political challenges
- Economic and financial perspectives of nuclear power plants
- Human resources development
- Nuclear infrastructure development
- Decommissioning strategy for radioactive waste and spent/used fuel management
- Regulatory and legislative frameworks for nuclear and radiological activities
- Nuclear security, safety, and safeguards
- Media and public acceptance
- Site selection studies of nuclear power plants
- Electric grid compatibility
- The Arab common market for electricity
- Lessons learned from the construction and decommissioning of worldwide nuclear power plants
- Water and energy governmental subsidies in Arab countries.

4- PARTICIPATION

The forum will bring together:

- Representatives of Arab and international bodies and organizations working in the field of nuclear fission energy.
- Arab and international experts in the fields of nuclear power plant development and infrastructure enhancement to share experiences and discuss key research and development priorities.
- Ministries, bodies, institutions concerned with electricity generation and water desalination in Arab countries.
- Arab Nuclear Fusion Program (ANFP) experts working in the field of nuclear fusion energy.
- International nuclear power companies and related industries to display their technologies at the forum.

Participants interested in joining the forum's activities must complete the attached registration form and submit it to the **AAEA** through the official forum **email** (forum.7_2025@yahoo.com).

The registration fee for foreign participants is US\$ 1,000. Please transfer the registration fees through the official bank account of the **Arab Atomic Energy Agency (AAEA)** as follows:

Bank Details: A.A.E.A.

Name of the Bank: Société Tunisienne de Banque – Central Agency

Address of the Bank: Hédi Nouira Street – 1001 Tunis

Name of the Account Holder: Arab Atomic Energy Agency (A.A.E.A.)

Account Number (A/C N°): 10 404 100 904173 3 840 07

IBAN: TN59 1040 4100 9041 7338 4007

BIC: STBKTNTXXX

5- PLACE AND DATE OF THE MEETING

Dead Sea - The Hashemite Kingdom of Jordan, **December 16-18, 2025**

6- LANGUAGES ADOPTED AT THE FORUM

Arabic and English are the two languages approved, with interpretation provided.

7- FORUM PROGRAM

The tentative program will be shared with all participants through the official email of the forum (forum.7_2025@yahoo.com) and posted on the official website of the AAEA: <https://www.aaea.org.tn>.

8- RESIDENCE

Detailed information on accommodation and other administrative matters will be available on the official website of the Arab Atomic Energy Agency (AAEA):

<https://www.aaea.org.tn>

For accommodation and logistical arrangements in Jordan, please contact **Mr. Osama Abu Roman**, Jordan Atomic Energy Commission, at: mobile: +962 79 949 6149 and email address: osama.aburoman@jaec.gov.jo.

9- EXHIBITION

Limited exhibition space will be available during the forum. Participation fees for companies will be announced in a timely manner.

10- SPONSORSHIP

Sponsors will be categorized into platinum, gold, silver and bronze. This will be arranged with the parties concerned, as per their request and priority according to the submitted applications.

11- VISAS

Participants requiring a visa to enter the Hashemite Kingdom of Jordan should contact the following email address: “visa.2025@jaec.gov.jo” for further information and instructions.

12- DEADLINE FOR REGISTRATION

September 1, 2025

13- CONTACT POINTS

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14- FORUM Email

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