



المؤتمر العربي الأول حول آفاق توليد الكهرباء وإزالة ملوحة مياه البحر بالطاقة النووية

The First Arab Conference on the Prospects of Nuclear Power for Electricity Generation and Seawater Desalination

23-25 June 2010

Hammamet, Tunisia

Organized by the

Arab Atomic Energy Agency

In cooperation with the

League of Arab States, Directorate of Energy

and

International Atomic Energy Agency

1 - BACKGROUND

The option of electricity generation and water desalination with nuclear energy becomes now a strategic option for Arab countries and needs good medium and long term preparedness. Recently many Arab countries have expressed their interest in adopting nuclear energy for electricity generation and sea water desalination and sought assistance from IAEA.

The socio-economical development in Arab countries is facing high challenges such as growing energy demand, increasing energy costs, dependence on fossil fuels which are uncertain, decaying, and leading to increased levels of greenhouse gases and environmental alteration as well as the national desire to secure and diverse energy supply resources. Nuclear power is expected to have a vital role to play in helping to solve these problems and will offer insurance to highly uncertain supplies and escalating costs of fossil fuels. The worldwide development of nuclear power is improved during the last twenty years where it has been proven to be safe, secure, economic and clean. The Arab desire to the peaceful use of nuclear energy especially for electricity generation and water desalination has been expressed clearly by the Arab Summit resolution which approved “The Arab Strategy for Peaceful use of Atomic Energy up to 2020”

Most Arab countries have currently limited nuclear activities and there is a clear need for a required knowledge, skills and human and financial resources to initiate and sustain a nuclear power programme. A few Arab countries have conducted, in the past, feasibility studies for the establishment of a nuclear power programme. However, in most cases the activities were not

sustained and the knowledge gained through these studies, including human capacity built through IAEA and AAEA support has not been preserved.

Increasing energy demand, concerns over climate change and dependence on overseas supplies of fossil fuels have prompted AAEA and Arab league, energy directorate to explore nuclear power as a strategic option for Arab countries for addressing energy security concerns. In particular, to better understand the key aspects of the planning of a nuclear power programme, including energy assessment, with special emphasis on the requirements in terms of the legal and regulatory framework, human resources, optimal siting conditions, safety, and public acceptance.

This conference is one of the components of the AAEA assistance to the Arab counties which aims at increasing awareness at decision making level about the requirements, pre-requisites, and other legal, financial and managerial obligations which are associated with the decision to embark on a nuclear power programme. Careful planning in the early stages of a programme across a wide range of national infrastructure issues can help instil confidence in the country's ability to legislate, regulate, construct and safely and further securely operate a nuclear power plant (NPP).

The conference will provide a forum to debate openly regional priorities and concerns related to nuclear power, including the requirements for conducting comprehensive studies to establish the need for and to explore the feasibility of nuclear power, and promoting regional cooperation and common understanding on major issues related to nuclear power, such as human and financial resources, comprehensive legal and regulatory frameworks, site selection, selection of appropriate nuclear power technologies, grid appropriateness, nuclear fuel cycle, radioactive waste management, stakeholder involvement and public communication.. It will also offer an opportunity for many countries considering the potential benefits of introducing nuclear power in their national energy mix to deepen their thinking about their own national conditions, environment and strategies for a viable nuclear power option.

2 - OBJECTIVES

- To provide a forum for discussions between high level participants from the Arab counties about the role of nuclear power in meeting energy demands in a sustainable manner.
- To provide a platform and facilitate exchange of information and experience about national approaches for considering nuclear power programmes,
- To discuss the interrelationship between energy, electricity, nuclear power, and the environment.
- To assess the progress made in Arab nuclear power programmes and to promote Arab cooperation and exchange of experiences in the field.

3 - SCOPE AND MAJOR ISSUES

The conference will provide opportunities to the Arab counties to present and discuss the role of nuclear power in meeting the future energy demand by making presentations on their national positions and programmes. It will also include presentations on the Arab, regional and international cooperation mechanisms under the framework of the Arab strategy programme and vision on nuclear power development, including:

- Joint Arab nuclear power stations for electricity generation and seawater desalination, its possibilities, reality, advantages and drawbacks.
- Joint Arab programmes for radioactive waste management and medium and long term disposal repository.

The Conference programme includes various presentations on many topics by Arab decision-makers, IAEA staff and other specialists as well as papers by the invited key speakers followed by panel discussions with and among the participants.

The major issues and topics are as follows:

1. Nuclear Power Policy Issues and Energy Planning,
2. Nuclear Power Plant Technologies,
3. Nuclear Fuel Cycle and supply policies
4. Financial And Economic Aspects Of Nuclear Power
5. Human Resources Development
6. Infrastructure Development,
7. Nuclear Waste Management and disposal of used fuel,
8. Legislative and regulatory frameworks,
9. Safety, Security And Safeguard Of Nuclear Material,
10. Public Acceptance,
11. Site selection,
12. Electrical grids,
13. Non electrical applications of NPP (water desalination and hydrogen production) and
14. The lessons learned from Arab experiences in embarking on Nuclear Power Plants.

4 - PARTICIPATION

Representatives of Arab organizations working in the nuclear energy field that can make or influence energy related decisions will be invited to attend the conference.

The AAEA will also invite key Arab and international experts to give talks about issues of major interest to the Arab States.

All persons wishing to participate in the Conference are requested to **register using the attached registration form and send it as soon as possible to the AAEA. With a registration fee of 500 USD, to be paid to AAEA.**

5 - VENUE

Hammamet, Tunisia

6 - WORKING LANGUAGES

The working languages of the Conference will be Arabic/English.

7 - PROGRAMME OF THE CONFERENCE

A preliminary programme of the Conference will be sent to participants and placed on the website before the meeting. The final programme will be available at registration.

8 - ACCOMMODATION

Detailed information on accommodation and other administrative matters will be available in due time.

9 - EXHIBITION

Limited space will be available for displays/ exhibits during the conference. Interested parties should contact AAEA.

10 - Last date for registration is 15/05/2010



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2010 /06/25 – 23

الحمادات - الجمهورية التونسية

تملاً للاستمارة بالكامل وترسل إلى البريد الإلكتروني aaea@aaea.org.tn أو الفاكس رقم : 0021671808450
This form needs to be duly completed and either sent to aaea@aaea.org.tn or faxed to: +216 71 808 450

Tunis – Tunisia

	Full Name: الاسم واللقب
	Nationality الجنسية
	الجهة التي ينتمي إليها المشارك Affiliation
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	Postal Code الرمز البريدي
	City المدينة
	Country البلد
	e-mail البريد الإلكتروني
	Telephone الهاتف
	Fax الفاكس
	صفة المشاركة في الاجتماع Qualification for attending
هل تريد المشاركة في المعرض؟ (نعم أو لا) Do You Intend To participate in the exhibition? (Yes or No)	هل تريد المشاركة في المعرض؟ (نعم أو لا) Do You Intend To Submit A presentation? (Yes or No)
عنوان الورقة : Title of presentation:	