



African Commission on Nuclear Energy

Unit B2003, 169 Corobay Corner, Corobay Avenue, Waterkloof Glen, 0010
Pretoria, South Africa. Email: Afcone.admin@afcone.org

CONCEPT NOTE

Responsibilities and Capabilities of Owners and Operators for a New NP Programme

AFCONe – IAEA Webinar

24 February 2022 - 14h00 to 17h30 (Pretoria Time/ GMT +2)

CONTEXT:

Supply of adequate, reliable, and affordable energy has direct implication in transforming Africa into a prosperous, peaceful, and integrated continent with dignified and happy people. However, energy generation has social, environmental, and climatic consequences and the impact of climate change and environmental degradation is predicted to have more adverse effect on Africa and its enterprises. Therefore, the development of the energy sector must focus on clean energy.

Nuclear energy promises to power Africa in realizing its developmental aspirations contained in Agenda 2063 because it is clean, environmentally friendly, climate resilient and can provide adequate baseload for a combined electrical grid system of neighbouring countries.

Agenda 2063 is the continent's development agenda which seeks to transform Africa's infrastructure, economy, and social well-being. Development of energy infrastructure is vital in delivering Agenda 2063 goals. In Africa, nuclear power is currently part of the energy generation mix in South Africa only.

Meanwhile, the United Nations has recognized that nuclear power can provide the energy to ultimately achieve most of the SDGs. About 11 African countries are currently considering adding nuclear power into their generation mix and are at various stages of nuclear power infrastructure development.

The International Atomic Energy Agency (IAEA) is providing support through technical cooperation programmes. From 2013 to 2021, eight African countries have organized through IAEA INIR missions and their follow ups.

The development of a nuclear power programme is a major undertaking requiring careful planning and preparation. The introduction of nuclear energy into a country is accompanied by the need to build the institutional, human, and physical conditions to construct and operate a nuclear power plant. A number of organizations will be involved, each with particular responsibilities and capabilities.

While the safe operation of nuclear power plant (NPP) relies on the establishment of a strong owner/operator, the preparation of the operator goes further than just being "ready to operate"- it also includes capacity building to be fully involved in the project, including during construction.

The objectives for this webinar are to introduce the IAEA's perspective on the overall responsibilities, and capabilities of owners and operators for countries initiating or implementing a nuclear power programme (IAEA Nuclear Energy Series No. NG-T-3.1 (Rev. 1)/2020) which addresses new issues such as the separation of owner and operator organizations, and also covers strategies to develop owner/operator organizations 'competence.



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This webinar covers the main activities and responsibilities of the owner/operator, during Phases 2 and 3 and the desirable attributes that the owner/operator should develop in order to be a successful operator of the first nuclear power plant in the long term.

AFCONE and the IAEA are organizing this virtual meeting to support African Member States embarking on a nuclear power programme, through providing an opportunity for the exchange of information among countries as well as for learning relevant lessons from case studies and current practices.

OBJECTIVES

The objectives of this webinar are to introduce the IAEA's perspective on the responsibilities and capabilities of owners and operators in countries initiating or implementing a nuclear power programme and show how they evolve with time.

KEY WORDS: Development of Nuclear Power Programmes in Africa, IAEA milestones, Nuclear Energy Programme Implementation Organisations (NEPIOs), Owner & Operator Organizations, Organizational Culture for Safety and Sustainability,

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EXPECTED OUTCOMES:

The expected outcomes of the webinar are:

- Gain an understanding of the responsibilities and capabilities of the owner/operator organisations in the implementation of a new nuclear power project;
- Learn about experiences of embarking countries in setting up a nuclear power project management organization.
- Increase awareness of IAEA support to future African operator organizations.

PARTICIPATING ORGANIZATIONS:

African Missions to the African Union, Government Representatives, African Institutions and Organizations, African Union Development Partners, AFCONE Partners, African National Nuclear Institutions, African Nuclear Regulators, Professional and Research Communities, Academia, Women in Nuclear- Africa, African Young Generation in Nuclear (AYGN).

LANGUAGE:

The language of the webinar will be English.

ORGANIZATION AND LOGISTICAL SUPPORT

The AFCONE Secretariat will prepare the announcement of the event and will distribute it to foreseen organizations. The Secretariat will share the **Microsoft TEAMS** log-in Meeting Link as soon as it is set-up for those that have expressed availability to attend.

REGISTRATION:

To Register, Please Send Your Request to the Email Address: Afcone.admin@afcone.org with the following information: Full Name, Profession, Institution & Country, Email & Professional Address.



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AGENDA

| Item | Activity | Time |
|---|--|---------------|
| 24 February: 14h 00 to 14h 25 (Pretoria Time/ GMT+2) | | |
| 1 | Welcoming and Introduction: AFCONE. Mr. Messaoud BAALIOUAMER. AFCONE Executive Secretary | 05 min |
| 2 | Opening Remarks: AUC. H.E. Dr Amani ABOU-ZEID, Commissioner for Infrastructure and Energy (AUC) | 10 min |
| 3 | Opening Remarks: IAEA. Ms. DES CLOZEAUX Aline, Director, Nuclear Energy Division, IAEA | 10 min |
| Moderators: MM. B. TYOBEKA (CEO/NNR/RSA) and Y. ELLETHY (NED/IAEA) | | |
| Presentations: | | |
| 24 February: 14h 30 to 17h 30 (Pretoria Time/GMT+2) | | |
| | 1) Responsibilities and capabilities of owner/operators in a new nuclear power programme by Mr Mehmet CEYHAN-NIDS/ IAEA. | 20 min |
| | 2) Owner/Operator Workforce Planning for New Nuclear Power Programmes by Mr Pedro DIEGUEZ PORRAS-NPES/IAEA. | 20 min |
| | 3) Construction of Rooppur NPP - Phase 3 Activities. Bangladesh by Mr Mohammad Shawkat AKBAR. Nuclear Power Plant Company. Bangladesh Ltd. | 15 min |
| | 4) Case Studies from Some African Countries Experience and/or Organisation: Responsibilities & Capabilities of Owners and Operators for a New NP Programme: | |
| | - Mr David NICHOLLS: Chair of the Board. NECSA Previously at ESKOM. South Africa. | 15 min |
| | - Mr Yusuf A. AHMED, Chairman/ CEO Nigeria Atomic Energy Commission (NAEC). | 15 min |
| | - Mr Charles KLUTSE, Research Scientist, Nuclear Power Institute Ghana (NPI/GAEC). | 15 min |
| | 5) Q & A session | 30 min |
| | 6) Closing Session | 10 min |