



Technical Meeting on Specific Considerations for the Deployment of Nuclear Cogeneration Projects

**IAEA Headquarters
Vienna, Austria**

22-24 July 2019

Ref. No.: EVT1803505

Information Sheet

A. Introduction

There is a growing interest in nuclear cogeneration, i.e. electricity generation and process heat applications. Previous experience has revealed that process heat from nuclear reactors can be used in various non-electric applications, such as using nuclear heat for district heating and hydrogen production, and recovering waste heat from nuclear power plants for seawater desalination and district heating. Furthermore, it has been recognized that non-electric applications of nuclear energy can improve efficiency and load following capability, and broaden the applicability of nuclear energy.

However, the deployment of nuclear cogeneration projects requires a proper understanding of not only the responsibilities of various stakeholders during the project implementation, management and operation phases, but also the special considerations of aspects related to the overall project, including: siting, target uses of the cogenerated product, coupling schemes for the cogeneration system, applicable regulation, impact of selected technology on nuclear power plant deployment, financial considerations, operational strategies for the two coupled plants, the different lifetimes of two coupled plants, and the various considerations for management of the nuclear cogeneration projects. So far, several business models for nuclear cogeneration projects have been developed for desalination, district heating, and the

use of nuclear process heat for some industrial applications. Yet, additional efforts to clarify the above-mentioned issues, especially for newcomer countries, have been requested by participants of other technical meetings on nuclear cogeneration.

B. Objectives

The purpose of this event is to: discuss the necessary considerations when deploying nuclear cogeneration projects; discuss steps to be considered to launch nuclear cogeneration projects; and exchange information on lessons learned from existing nuclear cogeneration projects.

C. Working Language(s)

The working language of the event will be English with no interpretation provided. All communications, abstracts and papers must be submitted in this language.

D. Expected Output

The expected output of this event is a generic draft report, covering:

1. Lessons learned from previously deployed nuclear cogeneration projects;
2. A better understanding of the advantages and disadvantages of the two main deployment schemes for such projects: retrofitting and new build; and
3. A meeting report summarizing the discussions conducted during the meeting on the topic.

E. Participation and Registration

All persons wishing to participate in the event have to be designated by an IAEA Member State or should be members of organizations that have been invited to attend.

In order to be designated by an IAEA Member State, participants are requested to send the **Participation Form (Form A)** to their competent national authority (e.g. Ministry of Foreign Affairs, Permanent Mission to the IAEA or National Atomic Energy Authority) for onward transmission to the IAEA by **31 May 2019**. Participants who are members of an organization invited to attend are requested to send the **Participation Form (Form A)** through their organization to the IAEA by above deadline.

For Member States receiving technical cooperation assistance, applications for financial support should be made at the time of designating the participant.

Designating Governments will be informed in due course of the names of the selected candidates and will at that time be given full details of the procedures to be followed with regard to administrative and financial matters.

Please note that the IAEA is in a transition phase to manage the entire registration process for all regular programme events electronically through the new InTouch+ (<https://intouchplus.iaea.org>) facility, which is the improved and expanded successor to the InTouch platform that has been used in recent years for the IAEA's technical cooperation events. Through InTouch+, prospective participants will be able to apply for events and submit all required documents online. National authorities will be able to use InTouch+ to review

and approve these applications. Interested parties that would like to use this new facility should write to: InTouchPlus.Contact-Point@iaea.org.

F. Expenditures and Grants

No registration fee is charged to participants.

The IAEA is generally not in a position to bear the travel and other costs of participants in the event. The IAEA has, however, limited funds at its disposal to help meet the cost of attendance of certain participants. Upon specific request, such assistance may be offered to normally one participant per country, provided that, in the IAEA's view, the participant will make an important contribution to the event.

The application for financial support should be made using the **Grant Application Form (Form C)**, which has to be stamped, signed and submitted by the competent national authority to the IAEA together with the **Participation Form (Form A)** by **31 May 2019**.

It should be noted that compensation is not payable by the IAEA for any damage to or loss of personal property. The IAEA also does not provide health insurance coverage for participants in IAEA events. Arrangements for private insurance coverage on an individual basis should therefore be made. The IAEA will, however, provide insurance coverage for accidents and illnesses that clearly result from any work performed for the IAEA.

G. Venue

The event will begin on **Monday, 22 July 2019**, and will be held at the Vienna International Centre (VIC) where the IAEA's Headquarters are located. Exact details of the venue will follow in direct correspondence between the IAEA organizers and the participants. Participants must make their own travel and accommodation arrangements.

General information on the VIC and other practical details, such as a list of hotels offering a reduced rate for IAEA participants, are listed on the following IAEA web page: <http://www-pub.iaea.org/iaeaevents/GeneralInfo/Guide/VIC>.

Participants are advised to arrive at Checkpoint 1/Gate 1 of the VIC one hour before the start of the event on the first day in order to allow for timely registration. Participants will need to present an official photo identification document in order to be admitted to the VIC premises.

H. Visas

Participants who require a visa to enter Austria should submit the necessary application to the nearest diplomatic or consular representative of Austria at least four weeks before they travel to Austria. Since Austria is a Schengen State, persons requiring a visa will have to apply for a Schengen visa. In States where Austria has no diplomatic mission, visas can be obtained from the consular authority of a Schengen Partner State representing Austria in the country in question.

I. IAEA Contacts

Scientific Secretary:

Mr Ibrahim Khamis

Nuclear Power Technology Development Section
Division of Nuclear Power
Department of Nuclear Energy
International Atomic Energy Agency
Vienna International Centre
PO Box 100
1400 VIENNA
AUSTRIA

Tel.: +43 1 2600 22822

Fax: +43 1 26007

Email: I.Khamis@iaea.org

Administrative Secretary:

Ms Mercedes Nicole Córdova Jurak

Nuclear Power Technology Development Section
Division of Nuclear Power
Department of Nuclear Energy
International Atomic Energy Agency
Vienna International Centre
PO Box 100
1400 VIENNA
AUSTRIA

Tel.: +43 1 2600 22815

Fax: +43 1 26007

Email: M.Cordova-Jurak@iaea.org

Subsequent correspondence on scientific matters should be sent to the Scientific Secretary and correspondence on other matters related to the event to the Administrative Secretary.