



IAEA

International Atomic Energy Agency

Atoms for Peace and Development

International Conference on Climate Change and the Role of Nuclear Power

IAEA Headquarters

Vienna, Austria

7–11 October 2019

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Announcement and Call for Papers

A. Introduction and Scope

Climate change is one of the most important issues the world is facing today. Nuclear power can make a significant contribution to reducing greenhouse gas emissions worldwide, while at the same time fulfilling the increasing energy demands of a growing world population and supporting global sustainable development. Nuclear power has considerable potential to meet the climate change challenge by providing electricity, district heating and high temperature heat for industrial processes, generated with almost zero greenhouse gas emissions.

To reach climate change goals, including those established in the Paris Agreement, a significantly greater deployment of low-carbon energy technologies is needed. Nuclear power has the potential to play a significant role in achieving these mitigation goals and, as a large-scale, reliable, dispatchable, and concentrated source of energy, can also contribute to broader economic and social dimensions of sustainable development. The potential role of nuclear power has been recently addressed also in the Intergovernmental Panel on Climate Change (IPCC) Special Report on Global Warming of 1.5°C, released in October 2018.

The International Atomic Energy Agency (IAEA) has an important role in improving the understanding of the potential contribution of nuclear power by providing interested Member States with guidance and assistance for deploying safe, secure and safeguarded nuclear technology and in formulating national

energy strategies and policies. Supporting Member States in the attainment of the United Nations climate change targets and Sustainable Development Goals (SDGs) is thus closely aligned with the statutory objective of the IAEA — to accelerate and enlarge the contribution of atomic energy to peace, health and prosperity throughout the world.

To this end, the IAEA is organizing the 2019 International Conference on Climate Change and the Role of Nuclear Power in Vienna from 7 to 11 October 2019. The conference will provide a platform to discuss objectively the scientific and technical aspects of the role of nuclear power in combating climate change. Topics covered in the conference will include: challenges and opportunities for existing nuclear power plants with respect to their continuous contribution to the avoidance of greenhouse gas (GHG) emissions; factors necessary to support high rates of deployment, including for advanced nuclear power technologies, consistent with achieving the climate change goals, including those established under the Paris Agreement, and SDGs, namely SDG 7 (Ensure access to affordable, reliable, sustainable and modern energy for all) and SDG 13 (Take urgent action to combat climate change and its impacts); and the prospects for synergies between nuclear power and other low carbon energy sources.

The major thematic areas of the conference will comprise the mitigation challenge and implications for the power sector, including the role of nuclear power, stimulated by the engagement of Member States and various international organizations to improve the understanding of the relationship between nuclear and climate. The discussion will be guided by the following questions: “Where are we?”; “Where do we want to go?”; and “How do we get there?”. The broad themes will tackle the nuclear power interim and long-term contributions (at present, until 2030, and beyond 2030) targeting future innovative applications, opportunities to address common challenges, and strategic and cross-cutting issues relating to public perception, regulations, markets and finance.

The conference will provide an opportunity to discuss mainstreaming nuclear power as a low-carbon energy source and its role in combating climate change.

B. Purpose

The purpose of the conference is to provide a forum for the exchange of information on the role of nuclear power, and on the opportunities and challenges of safe, secure and safeguarded nuclear technology development in supporting the low-carbon energy transformation needed to achieve the climate change goals.

The IAEA seeks to bring together Member States, representatives of relevant low-carbon energy sectors, international organizations, and other parties. The conference themes include a description of the mitigation challenge, implications for the power sector, environmental perspectives, and potential roles of existing, evolutionary and innovative nuclear power systems, including the integration of nuclear/renewable energy systems.

C. Topics

The IAEA welcomes high-quality contributions that fall under the umbrella of the six topics listed below:

- 1. Advancing energy policies that achieve the climate change goals:**

→ How nuclear power can contribute when planning for Nationally Determined Contributions (NDC) updates.

- 2. The increasing contribution of nuclear power in the mitigation of climate change, including synergies with other low-carbon power generation sources:**

- Challenges and opportunities for existing nuclear power plants with respect to the continuous contribution to the avoidance of greenhouse gas (GHG) emissions;
 - How nuclear power can add a large volume of sustainable clean energy for electricity generation and non-electric applications, including through integration into hybrid energy systems; and
 - Synergies between nuclear power and other low carbon energy sources.
- 3. Development and deployment of advanced nuclear power technologies to increase the use of low-carbon energy:**
- Challenges associated with the rapid introduction of new nuclear power technologies into the market, and the implementation of effective regulatory processes; and
 - How to reduce GHGs in each stage of the nuclear fuel cycle, from front end to back end.
- 4. Shaping the future of the nuclear industry in regulated and deregulated energy markets to address climate change:**
- How to ensure the availability of resources, including attracting finance and ensuring competitiveness of new nuclear power projects.
- 5. Enhancing international cooperation and partnership in nuclear power deployment:**
- How to facilitate and foster development and deployment of nuclear power technologies through international cooperation and partnerships, including with organizations and partners of other low carbon technologies.
- 6. Public and non-nuclear stakeholders' perception of the role of nuclear power in climate change mitigation:**
- How to engage public opinion and open effective channels of communication with other stakeholders in the field of energy, environment and climate change.

D. Structure

The conference programme will consist of plenary/topical sessions with high-level keynote speakers, panel discussions, networking sessions, side events, e-poster/e-space interactive sessions and exhibitions. Parallel sessions will feature presentations selected from submitted contributed papers. The Conference President's summary will be presented during the closing plenary.

Exhibitions and various side events will be held in parallel to the conference, presenting global trends and innovative nuclear technologies to help meet the climate mitigation goals.

E. Contributed Papers and Posters

Papers on issues falling within the topics outlined in Section C above may be submitted as contributions to the conference. All papers, apart from invited papers, must present original work and should not have been published elsewhere.

E.1. Submission of contributed paper

Anyone wishing to present a paper at the conference — either orally or in the form of a poster — must submit a contributed paper **in electronic format** through the conference’s web-based file submission system (IAEA-INDICO). Paper copies cannot be accepted.

Instructions on how to upload the paper to IAEA-INDICO will be available on the conference web page (see Section N). The paper **must** be submitted through this system by **28 April 2019**. No other form of submission will be accepted. The IAEA will not accept papers submitted after the deadline.

The contributed paper should not exceed **4 pages, including references**. The paper must be in English and give sufficient information on the contents of the proposed paper to enable the Programme Committee to evaluate it. Submitting the paper in the indicated electronic format is mandatory. Specifications for the layout and the electronic format of contributed papers, as well as for the preparation of posters, will be made available on the conference web page.

A compilation of full papers (in electronic form) will be made available to participants at registration. The IAEA reserves the right to exclude papers that do not comply with its quality standards and/or that do not apply to one of the topics outlined in Section C above and/or that do not meet the expectations based on the information in the contributed paper.

In addition, authors must electronically submit the following two forms to their appropriate governmental authority (see Section F) for transmission to the IAEA. These forms must be received by the IAEA no later than **28 April 2019**:

- Participation Form (Form A)
- Form for Submission of a Paper (Form B)

IMPORTANT: The electronically received contributed paper will be considered by the Programme Committee only if these two forms have been received by the IAEA through the established official channels.

E.2. Acceptance of papers for oral presentation and poster presentation

The number of contributions that can be accepted for oral presentation is limited. Authors who prefer to present their papers as posters are requested to indicate this preference on Form A and in IAEA-INDICO, at the time of submitting their paper.

Authors will be notified by **26 June 2019** as to whether their papers have been accepted for presentation at the conference, either orally or as a poster.

IMPORTANT: The system for electronic submission of papers, IAEA-INDICO, is the sole mechanism for submission of contributed papers. Authors are encouraged to submit papers as early as possible. The IAEA will not accept papers submitted via email.

E.4. Conference Proceedings

The proceedings containing summaries of the plenary and technical sessions, as well as the contributed papers presented at the conference will be published by the IAEA as soon as possible after the conference. Copies of the proceedings can be ordered, at a special discounted price, during or after the conference.

F. Participation and Registration

All persons wishing to participate in the conference must 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 following form(s), as applicable, to their competent national authority (e.g. Ministry of Foreign Affairs, Permanent Mission to the IAEA or National Atomic Energy Authority):

- Participation Form (Form A): participation only; no deadline if only Form A is submitted.
- Form for Submission of a Paper (Form B): participants submitting a paper through INDICO (deadline **28 April 2019**), must send the completed and signed Form B together with Form A to their competent national authority for onward transmission to the IAEA (Official.Mail@iaea.org) by **28 April 2019**.
- Grant Application Form (Form C): participants requesting financial support from the IAEA, must complete Form C and send it together with Form A (and Form B, if applicable) to the competent national authority for onward transmission to the IAEA (Official.Mail@iaea.org) by **28 April 2019**. Form C must be stamped and signed by the competent national authority.

Participants who are members of an organization invited to attend are requested to send the above form(s) through their organization to the IAEA (Official.Mail@iaea.org).

In addition, participants are requested to pre-register online through the IAEA web page for the conference.

G. 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 conference. The IAEA has, however, limited funds at its disposal to help cover 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 conference.

If governments wish to apply for a grant on behalf of one of their participants, they should address specific requests to the IAEA to this effect. Governments should ensure that applications for grants are:

1. Submitted by **28 April 2019**;
2. Accompanied by a duly completed Grant Application Form (Form C) signed and stamped by the Ministry of Foreign Affairs or the National Atomic Energy Authority; and
3. Accompanied by a completed Participation Form (Form A).

Applications that do not comply with the above conditions cannot be considered.

Approved grants will be issued in the form of a lump sum payment that usually **covers only part of the cost of attendance**.

H. Distribution of Documents

A preliminary programme of the conference will be made available on the conference web page (see Section N) before the start of the conference and the final programme will be distributed at the conference during on-site registration. It is intended that the contributed papers will be **distributed in a compiled electronic format (unedited) free of charge to all participants upon registration**. Questions relating to the contributed papers can be raised at the appropriate technical session or panel discussion.

I. Working Language

The working language of the conference will be English. All communications and papers must be sent to the IAEA in English.

J. Accommodation

Participants must make their own travel and accommodation arrangements. Detailed information on accommodation and other administrative matters will be sent directly to all designated participants approximately five months before the conference.

Please note that the IAEA is not in a position to assist participants with hotel bookings, nor can the IAEA assume responsibility for paying cancellation fees or for re-bookings and no-shows.

K. Visas

Designated participants who require a visa to enter Austria should submit the necessary application to the nearest diplomatic or consular representative of Austria as soon as possible. Please note that Austria is a Schengen State and therefore persons who require a visa will have to apply for a Schengen visa at least 21 days before entry into Austria. 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.

If you need more information, please check: <http://www.eurovisa.info/SchengenCountries.htm>.

L. Key Deadlines and Dates

Submission of contributed papers, including Forms A and B, through official channels to the IAEA	28 April 2019
Submission of Grant Application Form (Form C) through official channels	28 April 2019
Deadline for exhibitor registration	31 May 2019
Notification of acceptance of paper	26 June 2019

M. Conference Secretariat

General postal address and contact details of the IAEA:

International Atomic Energy Agency
Vienna International Centre
PO Box 100
1400 VIENNA
AUSTRIA
Tel.: +43 1 2600
Fax: +43 1 2600 2007
Email: Official.Mail@iaea.org

Scientific Secretaries of the Conference:

Mr Wei Huang

Division of Planning, Information and Knowledge Management
Department of Nuclear Energy
Email: Atoms4Climate@iaea.org

Mr Andrea Borio Di Tigliole

Office of the Deputy Director General
Department of Nuclear Energy
Email: Atoms4Climate@iaea.org

Mr Stefano Monti

Nuclear Power Technology Development Section
Division of Nuclear Power
Department of Nuclear Energy
Email: Atoms4Climate@iaea.org

Administration and organization:

Ms Martina Neuhold

Conference Services Section
Division of Conference and Document Services
Department of Management
Tel.: +43 1 2600 21314
Email: Conference.Contact-Point@iaea.org

Subsequent correspondence on scientific matters should be sent to the Scientific Secretaries and correspondence on administrative matters to the Conference Services Section.

N. Conference Web Page

Please visit the IAEA conference web page regularly for new information regarding this conference:
<https://www.iaea.org/events/climate-change-conference-2019>