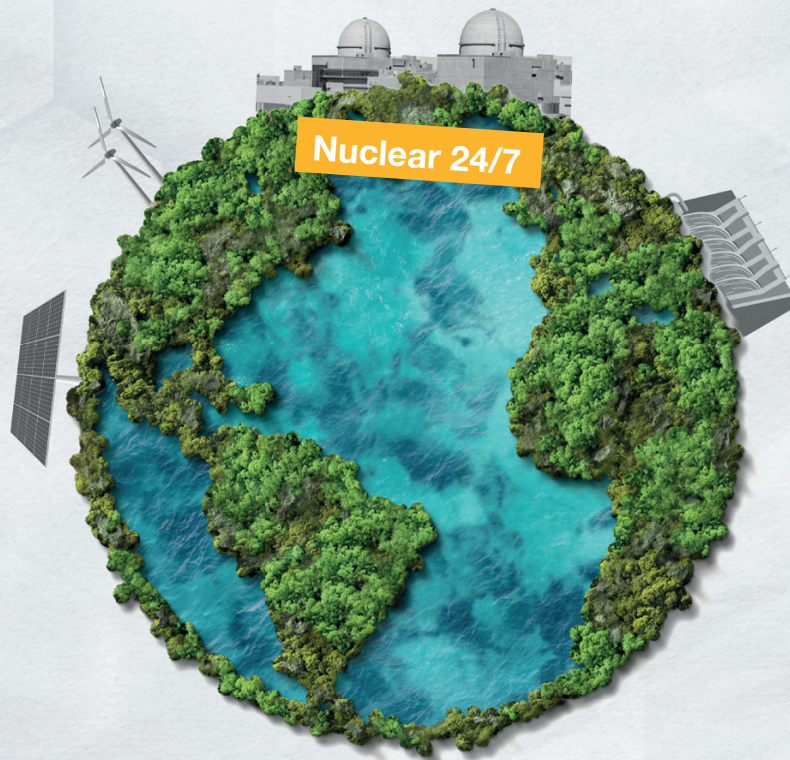


ATOMS4 NET ZERO



2nd International Conference on

Climate Change and the Role of Nuclear Power

9-13 October 2023 | Vienna, Austria

Background

Climate change is one of the most important issues the world is facing today. The 2022 IPCC's Sixth Assessment Reports (AR6) highlight that while steps have been taken, the world must mobilize faster and at greater scale than it has done so far to mitigate the catastrophic consequences of climate change. The IPCC Working Group III Co-Chair, Professor Jim Skea, says that "It's now or never, if we want to limit global warming to 1.5°C". The International Energy Agency (IEA) 2021 Flagship report, "Net Zero by 2050: A Roadmap for the Global Energy Sector", corroborated that viewpoint when it stated that the "gap between rhetoric and action needs to close if we are to have a fighting chance of reaching net zero by 2050 and limiting the rise in global temperatures to 1.5 °C."

To reach climate change goals, including those established in the Paris Agreement, a significantly greater deployment of low carbon energy technologies is needed. Historically, nuclear power has avoided around 70 Gt CO₂ in the last five decades, avoids more than 1 Gt CO₂ every year in the current decade and is still globally the second source of low carbon power behind hydropower. Nuclear power has the potential to continue playing a significant role in achieving the Paris

Agreement mitigation goals and contributing to the transition towards net zero energy systems. As a large scale, reliable, dispatchable, and concentrated source of energy, it can also help address the on-going disruptions in global energy supply, the subsequent energy crisis and support global sustainable development.

To respond to the increasing interest in nuclear power's contribution to the fight against climate change, and further elaborate on the role of nuclear power in net zero transitions, the IAEA is organizing the second International Conference from 9 to 13 October 2023, in Vienna. The conference will provide another opportunity for the nuclear community to elaborate the attributes of nuclear power in the context of climate change and net zero transitions, discuss the main challenges facing the nuclear sector and explore solutions for tapping the full potential of nuclear power, through incentivizing innovation, establishing an enabling environment, improving economics, and addressing stakeholder engagement, among others. It will also serve as an important platform for the nuclear community to establish a dialogue with the non-nuclear community at policy and technical levels.

Purpose and Objectives

The purpose of the event is to provide a forum for Member States, representatives of relevant low carbon energy sectors, international organizations, and other stakeholders to exchange information on the role of nuclear power in the energy transitions towards net zero emissions, consistent with the objectives of limiting global warming to 1.5 degrees Celsius by the end of the century.

The conference themes include the mitigation challenge and implications for the energy sector; the climate-resilience of energy systems; the roles of existing, evolutionary, and innovative nuclear power systems as well as the integration of nuclear-renewable energy systems; enabling environments for realizing the full potential of nuclear power; and international cooperation and stakeholder engagement.

Main Topics

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

- Positioning nuclear power in the global clean energy transitions;
- Establishing an enabling environment for nuclear power;
- Releasing the full potential of nuclear energy;
- Mainstreaming nuclear power as a sustainable, low-carbon energy source.

Audience

Participation in the Conference is solicited from decision makers, regulators, experts, scholars, public and other stakeholders from the Member States, international organizations, industry, academia, and non-governmental organizations involved in nuclear energy, climate change, environment, economic and social development portfolios. The Conference foresees the participation of the invited speakers to provide keynote presentations and/or take part in panel discussions.

Key deadlines

9 February 2023	Opening of synopsis submission through IAEA-INDICO
28 April 2023	Submission of synopses through IAEA-INDICO
28 April 2023	Submission of Form A, and if applicable Form B and Form C through the InTouch+ platform
26 June 2023	Notification of acceptance of synopses for oral or poster presentation
31 July 2023	Electronic submission of extended synopses through IAEA-INDICO
No deadline	Registration only (no paper submission, no grant request) using Form A through the InTouch+ Platform

Registration

There is no registration fee charged.

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.

Language

The working language of the conference will be English.

Conference webpage

Please visit the IAEA conference

<https://www.iaea.org/events/Atoms4Climate-2023>

regularly for new information regarding this conference.

Please include reference number

IAEA-CN-315 in all communications.

IAEA contacts

Scientific Secretary:

Mr Wei Huang

Division of Planning, Information and Knowledge Management

Department of Nuclear Energy

Email: Atoms4Climate-2023@iaea.org

Administration and organization:

Mr Tom Danaher

Conference Services Section

Division of Conference and Document Services

Department of Management

IAEA-CN-315; EVT2102339

Tel.: +43 1 2600 21317

Email: Conference.Contact-Point@iaea.org

Organized by the

