

Nuclear Energy Innovation and the Paris Agreement

Tuesday, 19 September 2017, 14:30 — 16:00

Conference Room C4, C Building, 7th floor

Adopted in 2015 by world leaders, the Paris Agreement is aimed at holding the increase in global temperature to below 2°C. All low-carbon energy technologies, including nuclear power, are needed to meet the Paris Agreement goal. The Paris Agreement stipulates that Nationally Determined Contributions (NDC) will be progressively revised every five years starting from 2020. In 2018, Parties will begin taking stock of their collective efforts in relation to the progress made towards the goal set in the Paris Agreement.

For each increasingly ambitious update, countries may choose to implement new climate policies (e.g., carbon prices), investment incentives, and they can choose to adopt new energy technologies, including nuclear power. As calls for increased ambition are being made, innovative nuclear energy technologies are under development that can help to combat climate change. When commercially available, these technologies can be incorporated into countries climate mitigation plans, i.e., NDCs.

This side event will present roadmaps for nuclear energy innovation linked to the submission schedule for the NDCs as a global response to climate change.

The event will cover enabling conditions for research and innovation, the regulatory framework and infrastructure to support Member States' NDC updates beginning in 2020. Speakers will inform participants on a number of nuclear energy innovations: 1) Accident Tolerant Fuels; 2) High Temperature Reactors/Small Modular Reactors/Non-electricity nuclear applications; and 3) Innovative nuclear systems.

The event will explore nuclear energy technology innovations and report on the progress, challenges, and enabling conditions to accelerate the development and deployment.

Nuclear Energy Innovation and the Paris Agreement

Tuesday, 19 September 2017, 14:30 — 16:00
Conference Room C4, C Building, 7th floor

Programme

Introduction of Session

Dohee Hahn

Director, Division of Nuclear Power,
Department of Nuclear Energy, IAEA

Opening remarks

Mikhail Chudakov, Deputy Director General
International Atomic Energy Agency (IAEA)

Remarks

William D. Magwood, Director General
Nuclear Energy Agency (NEA)

Panel Discussion

**Introduction of panellists, presentation
of the roadmap connecting the NDCs
with the nuclear technologies**

Huang Wei

Director, Division of Nuclear Energy Planning, Information and
Knowledge Management, Department of Nuclear Energy

**Paris Agreement and opportunities for
innovative nuclear power**

Cecilia Tam

International Energy Agency (IEA)

**Innovation at existing nuclear plants:
Accident Tolerant Fuel**

Kemal Pasamehmetoglu
US-Idaho National Laboratory

**Roadmap for realization of innovative
reactor designs (HTR-PM) to expand
nuclear support to non-electric
applications**

Yulong Wu

China-Chinenergy

**Advanced Nuclear Systems and
Challenges and Opportunities identified
in NI2050**

William D. Magwood

Director General,
Nuclear Energy Agency

Remarks

Yukiya Amano, Director General
International Atomic Energy Agency (IAEA)

Q&A Session

Panel

Closing remarks

Dohee Hahn

Director, Division of Nuclear Power,
Department of Nuclear Energy, IAEA