



SMR Platform: Advances in Nuclear Technology Developments for Microreactors

Side Event during the 68th IAEA General Conference
18 September 2024, 9:30 – 11:00, Room CR4, C building, 7th floor

The small size of microreactors, a subcategory of small modular reactors (SMRs) belies the massive impact they could have on future energy systems. Though they generate relatively little power, typically clocking in at no more than 20 MW(e), microreactors could address the challenge of powering remote sites and communities and be used in a wide range of non-electric applications. This event will take a look at the current state of microreactor technology, including marine-based nuclear power plants and explore the prospects and challenges for near-term deployment. The event will also showcase the IAEA Advanced Reactor Information System and updates from the SMR Platform.

Scientific Secretary: Alina Constantin, IAEA Department of Nuclear Energy

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Event Programme

Opening Address

Mr Mikhail Chudakov
Deputy Director General,
Head of the IAEA Department of Nuclear Energy

Panellists

*Advances in Microreactors
Development for Near-term
Deployment*

Mr Benoît Lepouzé
Senior Nuclear Expert, Nuclear Power
Technology Development Section,
IAEA Department of Nuclear Energy

*Showcasing the new IAEA
Advanced Reactor Information
System (ARIS)*

Mr Alexei Miassoedov
Nuclear Engineer, Nuclear Power
Technology Development Section,
IAEA Department of Nuclear Energy

*Security aspects of
microreactors*

Ms Heather Looney
Head of the Nuclear Security of Materials &
Facilities Section, IAEA Department of
Nuclear Safety and Security

*Safeguards by designs applied to
microreactors*

Mr Jeremy Whitlock
Senior Technical Advisor,
IAEA Department of Safeguards

*Perspectives from microreactor
technology developers*

Ms Alisha Kasam-Griffith
Reactor Physics and Core Design Manager,
USNC

Ms Katie Strangis
Vice President, Government and International
Affairs, Westinghouse

Moderator

Ms Alina Constantin
Nuclear Engineer, Nuclear Power
Technology Development Section,
IAEA Department of Nuclear Energy

Q&A session

Closing Remarks

Mr Frederik Reitsma
Head of the Nuclear Power
Technology Development Section,
IAEA Department of Nuclear Energy