

# Nuclear Energy Summit 2024

## SIDE EVENTS

Round #2 (20:30 – 21:00)

LOCATION	ORGANIZATION	TITLE	BACKGROUND INFORMATION
SPACE 1	European Nuclear Society (ENS), European Nuclear Education Network (ENEN), and Sustainable Nuclear Energy Technology Platform (SNETP)	Nuclear Scientific Community for Global Sustainable Development	<p>This side event will focus on the concrete examples where the involvement of scientific community is crucial in shaping the future of nuclear sector as well as in addressing the several challenges and open issues still to be solved for an early deployment of innovative nuclear systems and technologies. The panel will feature diverse renowned experts from the global R&amp;D&amp;I community providing insights on particular disciplines like, but not exclusively, innovative nuclear power technologies, non-electric applications, fully decarbonized integrated energy systems, closing the fuel cycle, E&amp;T and capacity building.</p>

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SPACE 2	European Commission, ITER, Fusion for Energy	Fusion Energy and Its Key Challenges	<p>The side event will include presentations from senior officials from the EC (DG ENRG), ITER and Fusion for Energy and some short videos addressing topics such as: commonalities and differences between fusion and fission energy; key policy challenges for fusion energy (regulation, financing, maintenance of know-how); different technological solutions on the path to commercial fusion energy; ITER as an essential step, building on the most advanced research in magnetic confinement fusion; overview of other approaches – stellarator, inertial confinement fusion and key technological challenges; functioning of the fusion industry; worldwide expertise necessary for first-of-a-kind components; key opportunities for industries; the deliveries to ITER, to the EU-Japan Broader Approach Agreement, to the material Test facility under construction in Granada (DONES), among others.</p>
SPACE 3	International Nuclear Lawyers Association (INLA)	Nuclear Law and Regulation in the 21st Century: Challenges and Opportunities	<p>This side event will consist of a panel discussion addressing the following topics: the role of nuclear law and regulation in ensuring safety, security, non-proliferation, and environmental protection in the nuclear sector; the harmonization and coordination of national and international legal frameworks for nuclear activities; the development and implementation of best practices and standards for nuclear law and regulation; challenges and opportunities posed by new technologies, such as small modular reactors, advanced fuel cycles, and fusion energy; the promotion of public awareness and engagement on nuclear law and regulation.</p>

LOCATION	ORGANIZATION	TITLE	BACKGROUND INFORMATION
SPACE 4	Third Way	Emerging Demand for Nuclear from Industrial and Tech Sectors: An Engine for Global SMR and Advanced Reactor Deployment	<p>This side event will develop around a panel conversation among executives and representatives from major multinational industrial and tech companies to discuss their projected clean energy needs and interest in/demand for advanced nuclear technology solutions to meet these challenges. The dialogue will focus around the following topics: projected needs for 24/7 clean; firm power and heat, and challenges in meeting this demand; Interest in small modular reactors (SMRs) and advanced reactors as possible solutions to these challenges; details on concurrent/recent public announcements of relevance made by these firms; prospects for partnerships/consortia arrangements in facilitating early deployments of innovative nuclear reactor designs; policy challenges and issues related to the deployment of SMRs and advanced reactors by these potential end-users.</p>
SPACE 5	Atkins Realis	Advancements in Nuclear Technology – Other Considerations	<p>This side event will focus on the following considerations related to advancements in nuclear technology: how successful life extensions and refurbishments change the energy financing calculus for governments and for utilities; isotope production, and the contribution of advanced nuclear technology to the health sciences; advancements in heavy water based nuclear reactor technology, such as CANDU, with a focus on energy independence, lower fuel cost, modularized construction methods, online refuelling, passive and defence safety advancements.</p>