

International Best Practices Workshop on the Role of Advanced Technologies in Effective Cybersecurity at Nuclear Facilities

3–5 February 2026. Vienna, Austria

Day 1: Understanding the Threat Landscape & Cybersecurity Fundamentals

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| 09:00 – 10:30 | Introduction session <ul style="list-style-type: none">- Welcome and opening remarks- Workshop objectives and agenda- Overview of cybersecurity challenges in the nuclear sector and the impact of technologies |
| 10:30 – 10:45 | Coffee Break |
| 10:45 – 12:30 | Session 1: Current Cyber Threat Landscape <ul style="list-style-type: none">- OT-targeted attacks- Supply chain vulnerabilities- Insider threats |
| 12:30 – 13:30 | Lunch |
| 13:30 – 15:00 | Session 2: Technology Overview – AI, ML, and Automation in Cybersecurity <ul style="list-style-type: none">- Key concepts and their role in modern threat detection- Benefits and limitations in nuclear settings |
| 15:00 – 15:30 | Coffee Break |
| 15:30 – 17:00 | Breakout Discussion: Cybersecurity Maturity in Participants' Organizations <ul style="list-style-type: none">- Sharing of current practices and gaps- Use of interactive electronic voting for anonymous input |
| 17:00 – 17:30 | Wrap-up and main take-aways of Day 1 |
| 17:30 – 19:00 | Workshop reception |

Day 2: Applied Technologies and Case Studies

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| 09:00 – 10:30 | Session 3: Advanced Security Architectures – Zero Trust, SOAR, XDR <ul style="list-style-type: none">- Definitions and core principles- Relevance and implementation challenges in nuclear environments |
| 10:30 – 11:00 | Coffee Break |
| 11:00 – 12:30 | Case Studies – Technology Integration at Nuclear Facilities |

- Real-world examples from nuclear operators and other critical infrastructures

12:30 – 13:30 Lunch

13:30 – 15:00 Panel Discussion: Cross-Sector Lessons Learned

- Insights from energy, transport, and financial sectors
- Q&A with technology vendors and operators

15:00 – 16:30 Coffee Break

16:30 – 17:30 Breakout Session: Identifying Immediate Cybersecurity Improvements

- Participants collaborate to define practical steps for their organizations

17:30 – 19:30 Vendor Session: Participants can assist to vendor demos and engage in one-to-one discussions with them

Day 3: Strategic Planning and Future Outlook

09:00 – 10:30 Session 4: Cyber Resilience Planning at National and International Levels

- National strategies and international cooperation
- Role of law enforcement and technical support organizations
- IAEA guidance and global perspectives
- Regulatory compliance and operational resilience

10:30 – 11:00 Coffee Break

11:00 – 12:30 Session 5: Skills, Workforce, and Diversity in Cybersecurity

- Building capacity in nuclear cybersecurity
- Promoting female participation and leadership

12:30 – 13:30 Lunch

13:30 – 15:00 Workshop next steps: Action Planning & Commitments

- Participants identify next steps for implementation
- Use of online polling to gather commitments and feedback

15:00 – 15:30 Coffee Break

15:30 – 16:30 Closing Session: Summary, Reflections, and Way Forward

- Workshop highlights
- Final remarks and closing