

**International Conference on the Safety of  
Radioactive Waste Management,  
Decommissioning, Environmental Protection  
and Remediation:**

**Ensuring Safety and Enabling  
Sustainability**

6–10 November 2023

**PROGRAMME**

Organized by the  
International Atomic Energy Agency (IAEA)

IAEA Headquarters Vienna, Austria

In cooperation with the  
International Commission on Radiological Protection  
(ICRP)  
OECD Nuclear Energy Agency (NEA)  
United Nations Environment Programme (UNEP)  
European Commission (EC)  
European Bank for Reconstruction and Development  
(EBRD)

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R. Tadesse, OECD/NEA  
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## **IAEA Secretariat:**

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D. Telleria, NSRW  
T. Kilochytska, NEFW

Event Organizer: J. Zellinger, MTCD  
Scientific Support: S. Dhlomo, NSRW  
J. Cakuru, NSRW  
Administrative Support: E. Sichra Copello, NSRW

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## **Location of the Event:**

International Atomic Energy Agency  
Vienna International Centre (VIC)  
Building M, M–Plenary

Wagramer Strasse 5  
A-1400 Vienna, Austria  
Tel.: (+43 1) 2600 21330

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**Working Language:** English

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**Resolutions:**

No resolutions may be submitted for consideration on any subject; no votes will be taken.

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## Android



## iPhone



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Read abstracts and full-papers of speakers



Participate in voting during sessions



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## TIMETABLE

### Monday, 6 November 2023

Time	Session No.	Session Title / Break	Venue
09:30–10:00		Opening Session	M–Plenary
10:00–11:10	Session 1	International perspectives in addressing the safety and sustainability of radioactive waste management, decommissioning, environmental protection, and remediation	
11:10–11:45	Session 2.1	The role of the UN Sustainable Development Goals in the back end of nuclear fuel cycle	
11:45–13:15		<i>Lunch Break</i>	
13:15–14:30	Session 2.2	Overarching concepts of ensuring safety and enabling sustainability	
14:30–15:00		<i>Poster session 1 / Break</i>	
15:00–16:15	Session 3.1	Managing the interrelationships in policy, strategy, legislation, and regulation	
16:15–16:45		<i>Poster session 1 (cont'd)</i>	
16:45–18:00	Session 3.2	Managing the interrelationships in policy, strategy, legislation, and regulation (cont'd)	
18:00–20:00		<i>Welcome Reception (with the support of the European Union)</i>	M–Building – Ground Floor

### Tuesday, 7 November 2023

Time	Session No.	Session Title / Break	Venue
09:00–10:10	Session 4	National perspectives in decision making	M–Plenary
10:10–10:40	Session 5.1	Integrating safety and sustainability in decision-making	
10:40–11:10		<i>Poster session 2 / Break</i>	
11:10–12:40	Session 5.2	Managing the interrelationships between safety and sustainability in decision-making	
12:40–14:00		<i>Lunch Break</i>	
14:00–15:15	Session 5.3	Managing the interrelationships between safety and sustainability in decision-making (cont'd)	
15:15–16:00	Session 6	Building capacity for ensuring safety and enabling sustainability	
16:00–16:30		<i>Poster session 3 / Break</i>	
16:30–18:00	Session 7	The vision of Young Professionals in ensuring safety and enabling sustainability	
18:00–19:00		<i>Networking session</i>	M–Building – Ground Floor

## Wednesday, 8 November 2023

Time	Session No.	Session Title / Break	Venue
08:30–09:30	Session 8	IAEA / ICRP joint session on safety and sustainability (virtual)	M–Plenary
09:30–10:40	Session 8.1	Lessons learned on engaging interested parties in decision making	
<i>10:40–11:10</i>		<i>Poster session 4 / Break</i>	
11:10–12:30	Session 8.2	Integrating the views of society into decision-making considering technical, environmental, social, and economic factors	
11:10–12:30	Session 8.3	Regional and international cooperation for ensuring safety and enabling sustainability	Board Room A
<i>12:30–14:00</i>		<i>Lunch Break</i>	
14:00–14:45	Session 9	International instruments contributing to ensure safety and enable sustainability	M–Plenary
14:45–16:00	Session 10.1	Regional and international cooperation for ensuring safety and enabling sustainability	
14:45–16:00	Session 10.2	Integrating the views of society into decision-making considering technical, environmental, social, and economic factors	Board Room A
<i>16:00–16:30</i>		<i>Poster session 5 / Break</i>	
16:30–18:00	Session 11	Application of the concept of clearance: Practical experiences	M–Plenary

## Thursday, 9 November 2023

Time	Session No.	Session Title / Break	Venue
09:00–10:30	Session 12	Integration of safety and sustainability in management of radioactive sources	M–Plenary
<i>10:30–11:00</i>		<i>Poster session 6 / Break</i>	
11:00–12:30	Session 13.1	Practical experiences in integrating safety and sustainability in remediation of sites and management of NORM	
11:00–12:30	Session 13.2	Practical experiences in integrating safety and sustainability in decommissioning	Board Room A
12:45–13:45	Side Event	What is in it for me? Panel discussion on how European Commission Euratom projects can benefit worldwide stakeholders beyond the project partners.	Board Room A
<i>12:30–14:00</i>		<i>Lunch Break</i>	
14:00–15:30	Session 14.1	Practical experiences in integrating safety and sustainability in management of radioactive waste	M–Plenary
14:00–15:30	Session 14.2	Practical experiences in integrating safety and sustainability in remediation of sites and management of NORM	Board Room A
<i>15:30–16:00</i>		<i>Poster session 7 / Break</i>	
16:00–17:15	Session 15.1	Practical experiences in integrating safety and sustainability in decommissioning	M–Plenary
16:00–17:15	Session 15.2	Practical experiences in integrating safety and sustainability in management of radioactive waste	Board Room A
17:15–17:40	Session 15.3	Key points from practical experiences In integrating safety and sustainability	M–Plenary
17:40–18:00	Session 16	ARTEMIS interactive session	
<i>18:00–19:00</i>		<i>Get-together session</i>	M–Building – Ground Floor

## Friday, 10 November 2023

Time	Session No.	Session Title / Break	Venue
09:00–09:30		Summary from the Conference Chairperson	M–Plenary
09:30–10:30	Session 17	Safety and sustainability: the vision of International Organizations	
<i>10:30–11:00</i>		<i>Break</i>	
11:00–12:00	Session 18	The way forward	
12:00–12:30		Closing session	



## MONDAY, 6 November 2023

09:30–10:00 OPENING SESSION

M–Plenary

Time	Name	Designating Member State/Organization	Title
09:30–10:00	<b>L. Evrard</b>	Deputy Director General NS, IAEA	Opening Address
	<b>H. Vandenhove</b>	Director NSRW, IAEA	Welcome Address
	<b>C.M. Larsson</b>	Conference Chair	

10:00–11:10

**SESSION 1:  
International perspectives in addressing  
the safety and sustainability of radioactive  
waste management, decommissioning,  
environmental protection, and remediation**

M–Plenary

Chairpersons: **C-M. Larsson, Norway**

**E. Amaral, Brazil**

Rapporteur: **J. Brown, IAEA**

Time	Name	Designating Member State/Organization	Title
10:00–11:10	<b>A. Clark</b>	IAEA	Cooperating Organizations' Presentations
	<b>W. Ruhm</b>	ICRP	
	<b>G. Lamarre</b>	OECD/NEA	
	<b>J. Svedkauskaite</b>	EC	
	<b>V. Seider</b>	EBRD	
	Panel discussion		

11:10–11:45

**SESSION 2.1:  
The role of the UN Sustainable  
Development Goals in the back end  
of nuclear fuel cycle**

M–Plenary

Chairpersons: **C-M. Larsson, Norway**

**E. Amaral, Brazil**

Rapporteur: **J. Brown, IAEA**

Time	Name	Designating Member State/Organization	Title
11:10–11:45	<b>D. Stronati</b>	UK	Keynote Address

11:45–13:15	<i>Lunch Break</i>			
13:15–14:30	<b>SESSION 2.2: Overarching concepts of ensuring safety and enabling sustainability</b>			<b>M–Plenary</b>
<b>Moderators:</b>	<b>T. Pather, South Africa</b>			
	<b>M. Malta, Portugal</b>			
<b>Rapporteur:</b>	<b>D. Telleria, IAEA</b>			
Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
13:15–13:25	5	<b>S. Carroll</b>	Sweden	Addressing sustainability considerations in strategies for nuclear decommissioning
13:25–13:35	320	<b>M. Clark</b>	UK	Reimagining the nuclear cycle as a circular economy: challenges and opportunities
13:35–13:45	194	<b>J. Freitas</b>	Brazil	Sustainable remediation in Brazil: Development, controversies, and future perspectives
13:45–13:55	351	<b>D. Esh</b>	USA	U. S. Nuclear Regulatory Commission: ensuring safety and fostering sustainability through risk-informed compliance period framework for analyses of radioactive waste disposal
13:55–14:05	144	<b>A. Larsson</b>	WNA	Circular Economy in Nuclear, Through the Prism of Material and Waste Management
14:05–14:30	Questions and answers / discussion			
14:30–15:00	<i>Poster session 1 / Break</i>			

15:00–16:15

**SESSION 3.1:  
Managing the interrelationships in  
policy, strategy, legislation, and  
regulation**

**M–Plenary**

**Moderators:**

**A. Clark, IAEA  
D. Pellegrini, France**

**Rapporteur:**

**S. Dhlomo, IAEA**

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
15:00–15:10	175	<b>F. Schenato</b>	Brazil	The proposed regulatory approach to NORM management in Brazil
15:10–15:20	173	<b>F. Pérez González</b>	Cub	The regulatory framework for the safety of nuclear applications role in achieving the sustainable development goals in Cuba
15:20–15:30	319	<b>S. Watt</b>	Canada	Canadian regulator's application of lessons learned in updating the regulatory framework to incorporate sustainability into decision making
15:30–15:40	177	<b>Y. Sauge K. Nyegaarden</b>	Norway	Ensuring safety and sustainability for nuclear decommissioning in Norway
15:40–16:15	Questions and answers / discussion			
16:15–16:45	<i>Poster session 1 (cont'd) / Break</i>			

16:45–18:00

**SESSION 3.2:  
Managing the interrelationships in  
policy, strategy, legislation, and  
regulation (cont'd)**

**M–Plenary**

**Moderators:**

**A. Clark, IAEA  
D. Pellegrini, France**

**Rapporteur:**

**S. Dhlomo, IAEA**

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
16:45–16:55	193	<b>E. Fuhr</b>	Argentina	Analysis of the regulatory framework and the interrelations between safety and sustainability during the back end of nuclear fuel cycle facilities
16:55–17:05	282	<b>S. Luque</b>	Spain	Planning for decommissioning from an early stage
17:05–17:15	287	<b>S. Bilal</b>	UAE	The UAE nuclear legislation framework: radioactive waste management and spent fuel management
17:15–17:25	243	<b>D. Bunn</b>	UK	Nuclear Waste Services – Developing a sustainability strategy that ensures safety and enables sustainability.
17:25–17:35	26	<b>S. Vardanyan</b>	Armenia	Improvement of the regulatory framework in the field of radioactive waste management in the republic of Armenia
17:35–18:00	Questions and answers / discussion			

18:00–20:00 *Welcome Reception (sponsored by European Union)*

M–Building –  
Ground Floor

## TUESDAY, 7 NOVEMBER 2023

09:00–10:10

**SESSION 4:**  
**National perspectives in decision making**

**M–Plenary**

**Moderators:**

**T. Pather, South Africa**  
**L. Alhindi Alattar, Syria**

**Rapporteur:**

**N. Aghajanyan, IAEA**

Time	Name	Designating Member State/Organization	Title
09:00–10:10	<b>J. Lubinski</b>	USA	Panel discussion of invited speakers
	<b>J. Lentijo</b>	Spain	
	<b>J. Eiman</b>	Namibia	
	<b>Z. Shang</b>	China	

10:10–10:40

**SESSION 5.1:**  
**Integrating safety and sustainability in decision-making**

**M–Plenary**

**Moderators:**

**T. Pather, South Africa**  
**L. Alhindi Alattar, Syria**

**Rapporteur:**

**N. Aghajanyan, IAEA**

Time	Name	Designating Member State/Organization	Title
10:10–10:40	<b>K. Baldry</b>	Australia	Keynote Address

10:40–11:10 *Poster session 2 / Break*

Sponsored by Nuclear Waste Management Organization - Canada

11:10–12:40

**SESSION 5.2:  
Managing the interrelationships between  
safety and sustainability in decision-making**

**M–Plenary**

**Moderators:**

**S. Santos Cota, Brazil  
M. Drahos, Slovakia**

**Rapporteur:**

**A. Lagumdzija, IAEA**

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
11:10–11:20	147	<b>W. Wacquier</b>	Belgium	Preparation of the safe and sustainable disposal of LLW in the future surface disposal facility in Belgium
11:20–11:30	250	<b>J. Kirk</b>	UK	Applying a life cycle environmental perspective to the development of radioactive waste treatment technologies
11:30–11:40	252	<b>A. Van Heek</b>	Netherlands	NESSAT: Providing a technical-economic assessment toolbox for a more integrated waste management policy
11:40–11:50	264	<b>F. Boese</b>	Germany	A Blind Spot of Sustainable Development - Integration of Radioactive Waste Accumulation into the Planetary Boundary Framework
11:50–12:05	171& 179	<b>K. White &amp; K. Littlewood</b>	UK	Embedding sustainability into decommissioning: participative systems mapping & Sustainability and taking a systems approach - an environmental regulator's perspective
12:05–12:40	Questions and answers / discussion			
12:40–14:00	<i>Lunch Break</i>			

**14:00–15:15**

**SESSION 5.3:  
Managing the interrelationships between  
safety and sustainability in decision-making  
(cont'd)**

**M–Plenary**

**Moderators:** S. Santos Cota, Brazil  
M. Drahos, Slovakia  
**Rapporteur:** A. Lagumdzija, IAEA

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
14:00–14:10	316	<b>K. Petrini</b> <b>L. Kylakorpi</b>	Sweden	Sustainability – a multidimensional challenge in the nuclear industry
14:10–14:20	215	<b>L. Pannecoucke</b>	France	Environmental remediation and waste management following a nuclear accident
14:20–14:30	293	<b>V. Detilleux</b> <b>A. Geisler-Roblin</b>	Belgium NTW	Managing interrelationships between safety and sustainability in decision-making: SITEX.Network activities
14:30–14:40	254	<b>R. Silke</b>	Canada	Incorporating land use considerations into the cleanup of a complex nuclear site in Canada: an integrated approach
14:40–14:50	314	<b>M. Koskelainen</b>	UK	NDA Value Framework - Our touchstone for sustainability
14:50–15:15	Questions and answers / discussion			

15:15–16:00

**SESSION 6:  
Building capacity for ensuring safety and  
enabling sustainability**

**M–Plenary**

**Moderators:**

**B. Watson, USA  
Z. Shang, China**

**Rapporteur:**

**D. Calderin Morales, IAEA**

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
15:15–15:25	196	<b>F. Puyade</b>	France	Global method to Attract, Develop and Retain Talent at Andra
15:25–15:35	327	<b>J. Simon</b>	Nigeria	Developing Capacity for Nuclear Decommissioning: The Nigeria Experience
15:35–15:45	285	<b>M. Khosi</b>	South Africa	Development of Technical and Scientific Capacity & Capability for Sustainable Management and Disposal of Radioactive Waste
15:45–16:00	Questions and answers / discussion			
16:00–16:30	<i>Poster session 3 / Break</i>			



## TUESDAY, 7 NOVEMBER 2023

<b>16:30–18:00</b>	<b>SESSION 7: The vision of Young Professionals in ensuring safety and enabling sustainability</b>	<b>M–Plenary</b>
<b>Moderators:</b>	<b>K. Madden, IAEA J. Cakuru, IAEA</b>	
<b>Rapporteur:</b>	<b>E. Sichra-Copello, IAEA</b>	

Time	Name	Designating Member State/Organization	Title
16:30–18:00	<b>H. Vandenhove, Director NSRW, IAEA</b>		Young Professionals Awards
	<b>Moderators</b>		Summary of Orals and Posters Awarded
	<b>A. Alexoiu, Romania</b>		Panel discussion of young professionals
	<b>T. Noor, Indonesia</b>		
	<b>K. Ambrose, UK</b>		
	<b>S. Marques de Carvalho, Brazil</b>		
	<b>Y. Abilaikhanov, Kazakhstan</b>		
	<b>A. Mbhele, South Africa</b>		
	<b>M. Belinco, Women in Nuclear</b>		
<b>Moderators</b>		Q&A, discussions	
18:00–19:00	<i>Networking session</i>		M–Building – First Floor

## WEDNESDAY, 8 NOVEMBER 2023

08:30–09:30      **SESSION 8:**      **M–Plenary**  
IAEA / ICRP joint session on the  
interrelationship of safety and  
sustainability (virtual)

**Chairpersons:** C-M. Larsson, Norway  
A. Clark, IAEA

Time	Name	Designating Member State/Organization	Title
08:30–09:30	Panel discussion		

09:30–10:40      **SESSION 8.1:**      **M–Plenary**  
**Lessons learned on engaging interested  
parties in decision making**

**Moderators:** K. Baldry, Australia  
E.R. Maset, Argentina  
**Rapporteur:** L. Del RISCO NORRLID, IAEA

Time	Name	Designating Member State/Organization	Title
09:30–10:40	<b>J. Heinonen</b>	Finland	Panel discussion of invited speakers
	<b>B. Watson</b>	USA	
	<b>P. Lucio</b>	Spain	
	<b>Z. Belmonte</b>	Philippines	

10:40–11:10	<i>Poster session 4 / Break</i>		
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11:10–12:30

**PARALLEL SESSION 8.2:  
Integrating the views of society into  
decision-making considering technical,  
environmental, social, and economic  
factors**

**M–Plenary**

**Moderators:**  
**S. Carroll, Sweden**  
**G. Meskens, Belgium**  
**Rapporteur::**  
**O. Tokarevskiy, IAEA**

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
11:10–11:20	334	<b>J. Oliver</b>	Spain	Challenges and opportunities of integrating the views of society into decision making within the field of radioactive waste management
11:20–11:30	358	<b>N. Smith</b>	Australia	Consent-based siting: fostering community support for Australia's first deep geological repository project
11:30–11:40	212	<b>S. Altfelder</b>	Germany	Global justice as a cornerstone of Agenda 2030 and its importance in the evolution of a safety culture in remediation, decommissioning and waste management
11:40–11:50	353	<b>S. Anderson</b>	Canada	Engaging for Success: Port Hope Area Initiative Activities
11:50–12:00	224	<b>C. Messier</b>	France	Evolution of radioactive waste management in France
12:00–12:30	Questions and answers / discussion			

11:10–12:30

**PARALLEL SESSION 8.3:  
Regional and international cooperation  
for ensuring safety and enabling  
sustainability**

**Board Room A**

**Moderators:**

**I. Simon Cirujano, Spain  
J. Raicevic, Serbia**

**Rapporteur::**

**M. Prevost, IAEA**

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
11:10–11:20	211	<b>V. Nguyen</b>	France	ASN's experience on regional and international cooperation concerning deep geological repository
11:20–11:30	317	<b>N. Maes</b>	Belgium	Supporting safe sustainability through enabling cross border radioactive waste treatment facilities and services
11:30–11:40	241	<b>M. Bornhöft</b>	Germany	Radioactive Waste Management for Small Amounts of Wastes – Results from the EURAD ROUTES Project
11:40–11:50	240	<b>E. Holt</b>	Finland	Advancing sustainability practices through innovation in LILW pre-disposal radioactive waste management: outcomes from the Euratom PREDIS project
11:50–12:30	Questions and answers / discussion			

12:30–14:00 *Lunch Break*

**14:00–14:45**                      **SESSION 9:**    **M–Plenary**  
**International instruments contributing**  
**to ensure safety and enable**  
**sustainability**

**Moderators:**                      **A. Wetherall, IAEA**  
**D. Telleria, IAEA**  
**Rapporteur::**                      **V. Ignatiuk, IAEA**

Time	Name	Designating Member State/Organization	Title
14:00–14:40	<b>N. Prieto Serrano</b>	INLA	International Organizations' Presentations
	<b>F. Haag</b>	IMO	
	<b>A. Stackhouse</b>	OSPAR	

**14:45–16:00**                      **PARALLEL SESSION 10.1:**    **M–Plenary**  
**Regional and international cooperation**  
**for ensuring safety and enabling**  
**sustainability**

**Moderators:**                      **D. Stronati, UK**  
**E. Garcia Neri, Spain**  
**Rapporteur::**                      **J. Calabria, IAEA**

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
14:45–14:55	288	<b>M. Al Binali</b>	UAE	Utilizing international cooperation in the development and sustainability of the UAE Nuclear Program
14:55–15:05	135	<b>B. Grambow</b>	France	EURAD: A European collaboration towards safe radioactive waste management and sustainable knowledge
15:05–15:15	311	<b>K. Siegien</b>	Norway	Role of regulatory authorities in cross-cutting dialogue on risk management in complex situations
15:15–15:25	191	<b>C. McCombie</b>	Switzerland	Multinational disposal solutions require alignment of policies, strategies and legislation and regulations
15:25–15:35	192	<b>M. Vuorio</b>	ERDO	ERDO Programme for enhancing international cooperation the back-end of the fuel cycle
15:35–15:45	321	<b>G. Mangiagalli</b>	Italy	The Euratom project MICADO with its innovative procedure for the characterization of Nuclear Waste Packages
15:45–16:00	Questions and answers / discussion			

14:45–16:00

**PARALLEL SESSION 10.2:  
Integrating the views of society into  
decision-making considering technical,  
environmental, social, and economic  
factors**

**Board Room A**

**Moderators:**

**N. Mmutle, South Africa  
E. Domingues de Carvalho, Portugal**

**Rapporteur:**

**T. Kilochytska, IAEA**

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
14:45–14:55	350	<b>M. Doell</b>	USA	U. S. Nuclear Regulatory Commission stakeholder engagement in the radioactive waste and decommissioning programs: ensuring safety and enabling the sustainability
14:55–15:05	209	<b>Z. Belmonte</b>	Philippines	Factors Influencing Generation Z and Millennials on the Acceptance of Nuclear Power Plant in a developing country: An Extended Theory of Planned Behavior
15:05–15:15	232	<b>C. Reaud</b>	France	Feedback from technical dialogue set up with civil society on HLW & IL-LL waste management in France
15:15–15:25	227	<b>E. Jacops</b>	Belgium	PREDIS: Example of how stakeholders can impact an R&D project and maximize their benefits –leading to increased safety and improved sustainability in radioactive waste management
15:35–15:40	10	<b>A. Dawood</b>	Ghana	Attaining Sustainable Development through the Application of Radioactive Sources and Safe Management of the Waste Therefrom
15:40–16:00	Questions and answers / discussion			

16:00–16:30 *Poster session 5 / Break*

**16:30–18:00**

**SESSION 11:  
Application of the concept of clearance:  
Practical experiences**

**M–Plenary**

**Moderators:**

**V. Ljubenov, IAEA  
M. Malta, Portugal**

**Rapporteur:**

**E. Maset, Argentina**

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
16:30–16:45	308& 341	<b>R. Szoke</b> <b>M.Lindberg</b>	Norway Sweden	EURATOM HARPERS Project Phase 1 Overview & Safe handling, treatment, clearance and recycling of contaminated metals from nuclear installations
16:45–16:55	115	<b>N. Rybalka</b>	Ukraine	Clearance Benefits and Inputs for Safety and Sustainability
16:55–17:05	137	<b>C. Bossio</b>	Argentina	14 years Implementing Clearance in Argentina
17:15–17:25	91	<b>R. Almeida</b>	Brazil	Derivation of conditional clearance limits for the disposal of NORM waste from O&G industries in hazardous waste landfills
17:25–17:35		<b>H. Monken-Fernandes</b>	IAEA	The role of Clearance in supporting circularity and sustainability in the scope of valorization of NORM residues
17:35–18:00	Questions and answers / discussion			

## THURSDAY, 9 NOVEMBER 2023

09:00–10:30

**SESSION 12:**  
**Integration of safety and sustainability in  
management of radioactive sources**

**M–Plenary**

**Moderators:**

**A. Lagumdzija, IAEA  
T. Pather, South Africa**

**Rapporteur::**

**L. Astuti, Indonesia**

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
09:00–09:10		<b>T. Pather</b>	South Africa	Invited speaker – Code of Conduct and Joint Convention
09:10–09:20		<b>W. Truppa</b>	Argentina	Invited speaker - Control of orphan sources in the recycling of metal industry
09:20–09:30	221	<b>E. Phillip</b>	Malaysia	Sustainable management of disused sealed radioactive sources (DSRSs) in Malaysia: Borehole disposal
09:30–09:40	210	<b>K. Adhikari</b>	Nepal	Radioactive Waste Management in Nepal
09:40–09:50	257	<b>A. Muzongomerwa</b>	Zimbabwe	Approaches in the sustainable management of radioactive waste and disused sealed radioactive sources in Zimbabwe
09:50–10:00	323	<b>C. Kansaana</b>	Ghana	Demonstration of the Stability of the Engineered Barrier System of the Borehole Disposal System for the Disposal of Disused Sources in Ghana
10:00–10:10	12	<b>L. Alhindi Al Attar</b>	Syria	Radioactive waste management in Syria
10:10–10:30	Questions and answers / discussion			

10:30–11:00 *Poster session 6 / Break*



11:00–12:30

**PARALLEL SESSION 13.1:  
Practical experiences in integrating safety  
and sustainability in remediation of sites  
and management of NORM**

**M–Plenary**

**Moderators:**

**I. Simon Cirujano, Spain  
Z. Fan, IAEA**

**Rapporteur:**

**L. Ong'ayo , Kenya**

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
11:00–11:10	318	<b>D. Trettin</b>	USA	U.S. DOE Office of Legacy Management - Beneficial Reuse of Environmentally Impacted Sites
11:10–11:20	249	<b>M. Ramalho Franklin</b>	Brazil	Why should NORM be regulated under the existing exposure situations concepts to enable sustainability?
11:20–11:30	46	<b>D. Bugai</b>	Ukraine	Radiological characterization, risk assessment and selection of preferred remedial option for the Veselivske legacy trench site in Ukraine
11:30–11:40	340	<b>Y. Mori</b>	Japan	Effort on Recycling of Removed Soil Arising from Off-site Decontamination Activities in Japan
11:40–11:50	354	<b>E. Harlander</b>	EBRD	CGULS Activities in Central Asia and expansion to Africa
11:50–12:00	184	<b>P. De Preter</b>	Belgium	The management of the legacy of radium-production in Belgium: a roadmap to long-term management solutions
12:00–12:30	Questions and answers / discussion			

11:00–12:30

**PARALLEL SESSION 13.2:  
Practical experiences in integrating safety  
and sustainability in decommissioning**

**Board Room A**

**Moderators:** S. Carroll, Sweden  
E. Garcia Neri, Spain  
**Rapporteur::** T. Kilochytska, IAEA

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
11:00–11:10	349	<b>B. Watson</b>	USA	An overview of the U. S. Nuclear Regulatory Commission decommissioning program: progress towards fulfilling the sustainability promise!
11:10–11:20	111	<b>Y. Zhao</b>	China	Good Practices and Future Development Prospects of Nuclear Decommissioning in China
11:20–11:30	75	<b>E. Joyce</b>	UK	Embedding sustainability into nuclear site decommissioning strategy and site restoration delivery – An example from the Winfrith Site in the UK
11:30–11:40	87	<b>B. Ahmed</b>	Iraq	Sustainable decommissioning of the Iraq destroyed IRT– 5000 research reactor
11:40–11:50	180	<b>A. Ketolainen</b>	Finland	Lessons learned from the design and implementation of nuclear liquid waste treatment installations – perspectives from a license holder and a service provider
11:50–12:00	125	<b>A. Hengeveld</b>	Netherlands	Bulk radioactive residuals from cyclotron decommissioning in the Netherlands: an opportunity for recycling through conditional clearance
12:00–12:30	Questions and answers / discussion			
12:30–14:00	<i>Lunch Break</i>			

**14:00–15:30**                    **PARALLEL SESSION 14.1:**                    **M–Plenary**  
**Practical experiences in integrating safety**  
**and sustainability in management of**  
**radioactive waste**

**Moderators:**                **G. Bruno, IAEA**  
**M. Doell, USA**

**Rapporteur::**                **E. Gyane, WIN**

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
14:00–14:10	149	<b>A. Ketolainen</b>	Finland	Final disposal of nuclear wastes in Finland – ensuring safety effectively
14:10–14:20	54	<b>V. Cuccia</b>	Brazil	First approach comparing cement and geopolymer as solidification matrixes for radioactive waste using Life Cycle Assessment
14:20–14:30	162	<b>M. Brenlla</b>	Argentina	Radioactive waste management during CNE life extension and sustainability considerations
14:30–14:40	19	<b>S. Paik</b>	India	Recycling and reuse of Nitrate bearing radioactive liquid waste in Uranium refining facility
14:40–14:50	242	<b>D. Bunn</b>	UK	UK Integrated Waste Management Programme – Driving Sustainability into Radioactive Waste Management.
14:50–15:00	263	<b>M. Thoopal</b>	Australia	Practical Safety and Sustainability decisions in Australia's Radioactive Waste Facilities
15:00-15:10	130	<b>I. Stefano</b>	Italy	Nucleco and its innovative and sustainable technological solutions for radioactive waste management: a contribution to achieving the sustainable development goals of the united nations 2030 agenda. <i>An Italian Case History</i>
15:10–15:30	Questions and answers / discussion			

**14:00–15:30**

**PARALLEL SESSION 14.2:  
Practical experiences in integrating safety  
and sustainability in remediation of sites  
and management of NORM**

**Board Room A**

**Moderators:** **S. Dalva Santos Cota, Brazil**  
**I. Sambo, Nigeria**

**Rapporteur:** **H. Monken– Fernandes, IAEA**

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
14:00– 14:10	244	<b>E. Domingues de Carvalho</b>	Portugal	Perspectives and challenges for sustainable post– remediation management of uranium legacy sites in Portugal
14:10– 14:20	129	<b>G. Nabakhtiani</b>	Georgia	Remediation of Radiologically Contaminated Sites in Georgia
14:20– 14:30	109	<b>A. Gaona</b>	USA	U.S. DOE East Tennessee Technology Park: A Model for Sustainable Cleanup
14:30– 14:40	156	<b>A. Alsabbagh</b>	Jordan	Remediation and Retrieval of Legacy Radioactive Waste Stored at Sewaqa Site in Jordan
14:40– 14:50	338	<b>B. Sokolovich</b>	USA	Commitment to Long– Term Stewardship: An Overview of Safe and Sustainable Management and Reuse of Legacy Sites
14:50– 15:00	188	<b>H. Elsayed</b>	Egypt	Implementation of Nuclear Knowledge Management Program on Radioactive Waste Management
15:00–15:10	201	<b>A. Khuttan</b>	UK	Optioneering and optimization of solutions for On-Site Disposition to ensure safety and enable sustainability
15:10–15:30	Questions and answers / discussion			
15:30–16:00	<i>Poster session 7 / Break</i>			

16:00–17:15

**PARALLEL SESSION 15.1:  
Practical experiences in integrating  
safety and sustainability in  
decommissioning**

**M–Plenary**

**Moderators:**

**V. Ljubenov, IAEA  
Y. Mori, Japan**

**Rapporteur:**

**M. Drahos, Slovakia**

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
16:00–16:10	69	<b>K. Ambrose</b>	UK	The challenge of balancing safety, environment, and sustainability in the nuclear industry
16:10–16:20	304	<b>A. Mbhele</b>	South Africa	Experiences, Challenges and Prospects in Decommissioning Nuclear Fuel Cycle Facilities in RSA
16:20–16:30	336	<b>R. Saragih</b>	Indonesia	Decommissioning Of Indonesia's Triga Mark II Reactor: Safety and Waste Management
16:30–16:40	297	<b>N. Barron H. Pantelidou</b>	UK	How nuclear decommissioning can be made compatible with a net zero carbon trajectory
16:40–16:50	140	<b>K. Gillin</b>	Sweden	A resilience-based approach to safe and sustainable nuclear back-end management
16:50–17:00	356	<b>H. Barton</b>	OECD/ NEA	The NEA's Decommissioning Costing Activities and its Implication to Sustainability
17:00–17:05	278	A. Sharman	UK	Proportionate Regulatory Control for Nuclear Sites in the Final Stages of Decommissioning
17:05–17:20	Questions and answers / discussion			

16:00–17:15

**PARALLEL SESSION 15.2:  
Practical experiences in integrating safety  
and sustainability in management of  
radioactive waste**

**Board Room A**

**Moderators:** D. Pellegrini, France  
N. Mmutle, South Africa  
**Rapporteur:** A. Guskov, IAEA

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
16:00– 16:10	21	<b>R. Soares Souza Pimenta De Almeida</b>	Brazil	Site selection's role at a sustainable radioactive waste repository project: a Brazilian experience
16:10– 16:20	230	<b>C. Turcanu</b>	Belgium	Advancing the integrated management of contaminated sites: frameworks and tools: The IAEA-ENVIRONET MAESTRI Project
16:20– 16:30	359	<b>N. Smith</b>	Australia	The deep borehole disposal method and an international demonstration project proposal for Australia
16:30– 16:40	265	<b>S. Mechora</b>	Slovenia	Planning LILW disposal facility in Slovenia in a sustainable way
16:40– 16:50	342	<b>S. Guillot</b>	France	French Low– Level Long– Lived repository project: ensuring sustainability from the early stages
16:50-17:00	355	<b>S. Sbi</b>	Morocco	Geopolymer as a potential sustainable technology for a safe radioactive nuclear waste management: Design, synthesis and characterization
17:00– 17:20	Questions and answers / discussion			

**17:20–17:50**                      **SESSION 15.3:**    **M–Plenary**  
**Key points from practical experiences**  
**In integrating safety and sustainability**

**Moderators:**                      **Simon Cirujano, Spain**  
**S. Carroll, Sweden**

**Rapporteur:**                      **R. Avila-Moreno, IAEA**

Time	Name	Designating Member State/Organization	Title
17:20–17:50	Moderators		Feedback session

**17:50–18:10**                      **SESSION 16:**    **M–Plenary**  
**ARTEMIS interactive session**

**Moderators:**                      **M. Prevost, IAEA**  
**G. Bruno, IAEA**

**Rapporteur:**                      **A. Salazar, IAEA**

Time	Name	Designating Member State/Organization	Title
17:50–18:10	Moderators		Quiz

**18:10–19:00**                      *Get-together*    **M–Building –**  
**Ground**  
**Floor**

**Side event:**

- o Thursday, 10 November, 12:45-13:45  
Organized by the European Commission







# Poster sessions

**MONDAY, 6 November 2023**

**13:15– 18:00 POSTER SESSION 1:  
Overarching concepts on ensuring safety  
and enabling sustainability**

Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
1	<b>S. Esseyin</b>	Nigeria	National Strategy and Planning for the Safe and Sustainable Management of Radioactive Waste and Spent Nuclear Fuel
59	<b>W. Moustafa</b>	Egypt	Legacy Sites, Addressing the Past and Ensuring the Future
84	<b>I.M. Ardana</b>	Indonesia	Analysis of Achievements and Challenges in the Implementation of Regulations and Policies to Gain Safety and Sustainability of Radioactive Waste Management in Indonesia
86	<b>D. Rushartono</b>	Indonesia	Reconstruction of Legal Politics on Radioactive Waste Management in the Framework of Strengthening Sustainable Development
100	<b>A. Alexoiu</b>	Romania	Romanian regulation on the safety of radioactive waste management and decommissioning, considering factors that enable sustainability
106	<b>M.Z. Arif</b>	Pakistan	National regulatory requirements and practices for radioactive waste management, decommissioning and environmental protection ensuring safety and enabling sustainability
132	<b>G. Nikolova</b>	North Macedonia	Radioactive Waste Management-National Programmatic Perspectives
138	<b>N. Protti</b>	Argentina	Review of Safety Assessments for Radioactive Waste Storage facilities
154	<b>L. Sarkhosh</b>	Iran	Measures of Iran Nuclear Regulatory Authority in support of the sustainable development
168	<b>J. Bandeira De Molo Carvalho Passos</b>	Brazil	Stakeholder engagement in the decommissioning of a uranium mine in Brazil

214	<b>S. Marques De Carvalho</b>	Brazil	New regulatory framework for Radioisotopes Production in Brazil – Decommissioning aspects
220	<b>N. Maes</b>	Belgium	HARPERS Project Phase I – Methodology to identify needs and priority issues related to harmonized practices, regulations and standards in waste management and decommissioning
280	<b>A. Geisler-Roblin</b>	Slovenia	Possibilities and Challenges of RWM with Regard to Civil Society Interactions
143	<b>S. Stravinskas</b>	Lithuania	Abstract of presentation of Lithuanian legislative framework on decommissioning of nuclear facilities
256	<b>T. Sahinyilmaz</b>	Turkiye	Public perception and acceptance of nuclear energy in Turkiye: An empirical analysis based on Twitter

## TUESDAY, 7 November 2023

### 09:00– 18:00 POSTER SESSION 2: Practical application of ensuring safety and enabling sustainability in managing radioactive waste and NORM

Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
116	<b>V. Artiko</b>	Serbia	Lu-175 in PET detectors - impact on medical image and legal remediation issues
120	<b>V. Antic</b>	Serbia	The first nuclear security plan for nuclear medicine departments in Serbia
133	<b>T. De Avila Navarro</b>	Brazil	Management of Low Activity Radioactive Waste (TORTA II) in Caldas Decommissioning Unit, Brazil
139	<b>P. Kopka</b>	Poland	Application of the JRODOS system and the probabilistic weather data sampling model in the Probabilistic Safety Assessment Level 3 for nuclear installation
148	<b>C. Leme Beu</b>	Brazil	Evaluating the sustainability of sites for nuclear facilities under the effects of climatic changes on variability of the effective dose to the representative person
157	<b>Y. Gorlova</b>	Russia	Experience of decommissioning RADON-type legacy storages
226	<b>J.A. Trinidad</b>	Spain	Final characterization and Supervision by National Regulatory Body under Site Restoration Plan in Sites after Dismantling Nuclear Power Plant (Jose Cabrera site case)

238	<b>M. Boroumandi</b>	Iran	The role of international cooperation on estimating the erosion rate and decreasing uncertainties in radioactive waste management safety assessment
261	<b>D. Iskandar</b>	Indonesia	Enhancing Radiation Safety on NORM Management at Tin Industry to Increase Sustainable Production
25	<b>M.A.W. Yusof</b>	Malaysia	Sustainability in Safety for Borehole Disposal of Disused Sealed Radioactive Sources: Malaysian Experience
34	<b>R.Soja</b>	Nigeria	Legislative Framework towards Safe Management and Disposal of Disused Sealed Radioactive Sources: Nigeria's Experiences, Challenges and Prospects
92	<b>M.Issa</b>	Niger	Integrating the views of society into decision-making considering technical, environmental, social, and economic factors.
114	<b>S.Hromyko</b>	Ukraine	Building policy, strategy and regulation to ensure the radiation safety of waste containing radionuclides of natural origin management

**09:00– 18:00 POSTER SESSION 3: Practical application of ensuring safety and enabling sustainability in managing radioactive waste**

Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
2	<b>S. Anisur Rahman</b>	Bangladesh	Creation of an Interim Storage Facility for the Very Low-Level Radioactive Waste (VLLW) at the Rooppur Nuclear Power Plant (RNPP) Site of Bangladesh
3	<b>F. Kungurov</b>	Uzbekistan	Radioactive wastes from decommissioning of the TC of JSC "FOTON"
8	<b>G. Gbeddy</b>	Ghana	Decades of personnel and environmental safety in the management of radioactive waste facility in Ghana for a sustainable socio-economic development
31	<b>A. Dirican</b>	Turkiye	Pre-operational radiologic monitoring program of Türkiye's first open pit rare earth element mining and processing area
35	<b>S. Binti Jalil</b>	Malaysia	Regulatory control on the disposal of naturally occurring radioactive material (NORM) waste produced from the petroleum industry in

			Malaysia for safety and environmental sustainability
36	<b>R. Wang</b>	China	A Portable Low Level Waste Incineration System of China Institute for Radiation Protection
39	<b>V. Jakimaviciute-Maseliene</b>	Lithuania	Title Site selection procedures at the initial stages of the implementation of DGR programme in Lithuania - lessons learned
41	<b>R. Salihuddin</b>	Malaysia	Immobilization of spent resin using palm oil fuel ash (POFA) supplemented cementitious material
50	<b>M. Ghobashy</b>	Egypt	Gamma radiation-induced synthesis of polyaniline/CuWO <sub>4</sub> nanocomposite for potential sorption of Cobalt-60 and Cesium137 from aqueous solutions
51	<b>D. Pangestu</b>	Indonesia	Conceptual Design of Transportation Container for Radioactive Waste Fission Product Molybdenum Capsule
65	<b>S. Agung</b>	Indonesia	Cost Benefit Analysis of Liquid Radioactive Waste Treatment Methods
68	<b>M. Membarka</b>	Algeria	Radiological characterization of radioactivity around nuclear facilities
72	<b>A. Smaizys</b>	Lithuania	Sustainability Aspects in Radioactive Waste Management in Lithuania
88	<b>S. Youssef</b>	Egypt	Treatment of low level radioactive waste containing 134Cs radionuclide using modified natural clay
89	<b>E. Borai</b>	Egypt	Sorption of Radioactive 60Co and 137Cs in low level radioactive waste onto crosslinked crown ether polymeric composite
103	<b>C. Zeyrek</b>	Türkiye	A Proposal Study for Storage and Disposal of Low-level Radioactive Waste in Salt Cavities of Anatolian Region, Türkiye
107	<b>J. Ha</b>	Republic of Korea	Methodology for deriving criteria for the acceptance of cellulose containing waste throughout a low-level radioactive waste repository
23	<b>L. Ong'ayo</b>	Kenya	Experiences of integrating safety and sustainability of radioactive waste management of nuclear medicine facilities in Kenya: Case study of KUTRRH
57	<b>T. Noor</b>	Indonesia	Implementing safety performance indicators in the radioactive waste management facility: methods, results, and challenges

73	<b>L. Astuti</b>	Indonesia	Information system integration on radioactive waste management in Indonesia
122	<b>S. Gezer</b>	Türkiye	Safe energy management for sustainable nuclear energy
218	<b>A.A. Chavez</b>	Argentina	Research on the management of MTR Spent fuel in the DMN-CAB-CNEA
190	<b>J. Raicevic</b>	Serbia	Gap analysis and implementation of international projects in countries developing nuclear and radiological waste management capacities

## WEDNESDAY, 8 November 2023

### 09:00– 18:00 POSTER SESSION 4: Practical application of ensuring safety and enabling sustainability in environmental protection and remediation

Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
6	<b>R. Moubakou Diahou</b>	Congo	Baseline data of radioactivity and radon mass exhalation rate in soils and phosphate rocks of a prospective phosphate mining area in Hinda district, Republic of Congo
11	<b>S. Bello</b>	Nigeria	Application of RESRAD and ERICA tools for safe and sustainable gold mining in Nigeria
15	<b>M. Shaat</b>	Egypt	Safety and Environmental Protection during Interim Storage of Spent Nuclear Fuel
95	<b>M. Maertens</b>	France	An industrial pilot phase to accompany the development of the French HLW and ILW-LL DGR Cigéo
105	<b>N. Saleem</b>	Pakistan	Demonstrating Safety through Environmental Monitoring around Nuclear Installations in Pakistan
121	<b>F. Perez Gonzalez</b>	Cuba	Experience of the environmental radiological sustainability approach in medical practice with ionizing radiation
170	<b>M. Garcia-Talavera</b>	Spain	Radon Matters in Environmental Remediation
186	<b>I. Opoku-Ntim</b>	Ghana	Radiological impact assessment of radon in an earthquake prone area: a case study of Weija-McCarthy hill in Ghana
296	<b>M. Majali</b>	United Arab Emirates	Pre controlling of the discharge of liquid (or other forms) radioactive waste effluents regulatory control for discharge of liquid radioactive effluents

229	<b>V. Detilleux</b>	Belgium	Full System decontamination of the primary circuit at Doel 3 NPP: safety assessment by the regulatory body.
202	<b>M. Rodriguez</b>	Argentina	Experiences on Environmental Radiological Monitoring for Nuclear Emergency Exposures Situations, resulting from field exercises: lessons learned and proposals for improvement with a sustainability perspective
277	<b>R. Mikailova</b>	Russia	Ranking of nuclear facilities by assessing potential radiation impact on the environment
301	<b>J. Silva Rocha Donato</b>	Brazil	Determination of the limits of geochemical background of groundwater in the Riacho Das Vacas Sub-Basin
309	<b>S. Kairambayev</b>	Kazakhstan	Methodology for environmental impact assessment of uranium mining enterprises

**09:00– 18:00 POSTER SESSION 5: Practical application of ensuring safety and enabling sustainability in managing radioactive waste and NORM**

Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
269	<b>B. Tate</b>	Australia	Updating the ANRDR: sustaining safe practice in the face of an expanding radiation industry in Australia
302	<b>A. Jones</b>	USA	Uranium Bearing Material Processed for Source Content: Radioactive Waste or Not?
305	<b>R. Gibaut de Souza Gois</b>	Brazil	Contaminated area management plan for a mining and milling uranium facility – preliminary results
310	<b>F. Pancotti</b>	Italy	HARPERS Project – Identification of priority needs and opportunities for promoting Circular Economy when managing materials and waste arising from nuclear decommissioning
331	<b>A. Banford</b>	UK	Identification of opportunities for standardization and collaboration to accelerate the demonstration and adoption of advanced technologies to enhance nuclear decommissioning and radioactive waste management
333	<b>K. Dacyte</b>	Lithuania	Radioactive waste materials in construction: fusing safety, sustainability, and ingenuity
343	<b>C. Dath</b>	Senegal	Implementing Rays of Hope (RoH) initiative and enabling sustainability hopes and challenges of a light

158	<b>E. Shkurta</b>	Albania	Rehabilitation of hot spots, creation of safe areas for the population of Albania through sustainable development
262	<b>C. Muanglay</b>	Thailand	Conceptual design of the mobile tool kit facility for conditioning of disused sealed radioactive sources category 3-5 in Thailand
20	<b>D. Seydou</b>	Niger	Environmental Radiological Monitoring, Decommissioning and Remediation of Uranium Mine Sites of Arlit, Niger
216	<b>T. Sundari</b>	Indonesia	Safety and Sustainability Considerations in the Operation Management of Spent Nuclear Fuel Interim Storage Facility in Indonesia
219	<b>B. Chege</b>	Kenya	Challenges of radioactive waste management in nuclear medicine facilities in Kenya.
251	<b>A. Vysniauskas</b>	Lithuania	Initial stage of the Lithuanian deep geological repository project
268	<b>A. Phattanasub</b>	Thailand	Radioactive waste management and a quality management system in Thailand
272	<b>S. Bvumbi</b>	South Africa	Progress on the establishment of the centralized storage facility in response to spent fuel management sustainability in South Africa
142	<b>C. Odeny</b>	Kenya	Radioactive waste management in Kenya
76	<b>A. Mhiri Chaabouni</b>	Tunisia	Storage and disposal modalities of Radioactive Waste in one of Tunisian NM departments
183	<b>A. Bitar</b>	Syria	Occupational exposure in the management of radioactive waste in Syria
146	<b>W. Wacquier</b>	Belgium	Preparation of the safe and sustainable disposal of LLW in the future surface disposal facility in Belgium
77	<b>P. Dewanto</b>	Indonesia	The Establishment Of A 5-Year Roadmap To Respond To Challenges In Controlling Radioactive Waste Management in Indonesia
202	<b>M. Rodrigues</b>	Argentina	Experiences on Environmental Radiological Monitoring for Nuclear Emergency Exposures Situations, resulting from field exercises: lessons learned and proposals for improvement with a sustainability perspective
228	<b>A. De Hoyos</b>	France	Assessment of the mechanical stability of dams surrounding the uranium mill tailings in France



## THURSDAY, 9 November 2023

### 09:00– 18:00 POSTER SESSION 6: Practical application of ensuring safety and enabling sustainability in managing radioactive sources and NORM

Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
13	<b>P. Essel</b>	Ghana	Utilization of the IAEA BDC Scoping Tool and AMBER Modelling for Post Closure Safety Assessment for a Proposed Borehole Repository of Disused Sealed Radioactive Sources in Ghana
18	<b>L. Zinkevych</b>	Ukraine	Experience and lessons learned by the SSE "Radon Association" on the remediation of radioactively contaminated areas
22	<b>I. Teng</b>	Malaysia	Roles and Responsibilities of Regulatory Body in Licensing Decision for NORM Milling Facility
24	<b>T. Ngu</b>	Malaysia	Holistic approach in regulatory control on the disposal of NORM residues from rare earth industry into the permanent disposal facilities (PDF) for environmental sustainability
28	<b>I. Sambo</b>	Nigeria	Assessment of occupational and public exposure from Tin mineral processing industries in Jos - north central Nigeria
29	<b>I. Sambo</b>	Nigeria	Applying graded approach in the sustainability of management of NORM residues in the oil and Gas Industry in Nigeria
30	<b>M. H. Hasim</b>	Malaysia	Assessment and Licensing Point of View Toward Borehole Disposal Facility in Malaysia
44	<b>T.El Ghailassi</b>	Morocco	Safe Management of Disused Sealed Radioactive Sources in Morocco
60	<b>W. Moustafa</b>	Egypt	Development and challenge to Improve Nuclear Knowledge Management and Safety Culture
61	<b>O. Novikov</b>	Ukraine	Chornobyl NPP Cooling Pond: Decommissioning
70	<b>L. Rozdylouskaya</b>	Belarus	Ensuring safety and sustainability in managing legacy and remediation radioactive waste
97	<b>M. Proenca De Amorim Dinis</b>	Portugal	Viability of the sustainable valorization of the dicalcium phosphate residues: towards the safe management of NORM residues
64	<b>V. Zahrawati</b>	Indonesia	Assessment of the Implementation of Reuse and Recycle of Disused Sealed Radioactive Sources to Reduce Radioactive Waste in Indonesia
164	<b>Z. Trafimchik</b>	Belarus	Development of radioactive contamination control and radiation

			monitoring systems in belarus: contribution of the chernobyl catastrophe consequences overcoming experience
200	<b>A. Sa'id</b>	Nigeria	The role of Nigerian radioactive waste management facility center on the safety and sustainable use of radioactive sources in Nigeria
253	<b>L. Mazuru</b>	Zimbabwe	Financial provisions for management of radioactive waste and disused sealed radioactive sources in Zimbabwe
313	<b>D. Lazarevic</b>	Serbia	Radiation safety analysis of the management of radioactive sources from lightning rods
185	<b>C. Parker</b>	UK	Progress towards the demonstration of deep borehole disposal
234	<b>C. Guembou Shouop</b>	Cameroon	Application of Monte Carlo modeling based – PHITS code to DSRSS management in Cameroon
187	<b>B. Guimarães Nunes Lambiasi</b>	Brazil	Radiological Environmental Impact Assessment in Scenarios of Expansion of a Nuclear Facilities Site
43	<b>D. Murlis</b>		Limiting of Radioactive Discharges as a Factor of Safety and Sustainable Development
55	<b>D. Murlis</b>		Evolution of Approaches to Calculation Justification of Long-Term Safety of Radioactive Waste Disposal Facilities in the Russian Federation

**09:00– 18:00 POSTER SESSION 7: Practical application of  
ensuring safety and enabling sustainability  
in decommissioning and managing  
radioactive waste**

Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
108	<b>S. Choi</b>	Republic of Korea	Design and of Performance Test Facility of Final cover for Near Surface Disposal Facility
118	<b>T. Rakitskaya</b>	Russia	Sustainable Development of the Unified State System of Radioactive Waste Management in Russian Federation
126	<b>J. Beyala Ateba</b>	Cameroon	Operational safety measures taken during dismantling and conditioning of neutron and low activity disused sealed radioactive sources in Cameroon
134	<b>Z. Faiz</b>	Morocco	Assessment of Moroccan natural additions impact on the cementation process quality of spent ion exchange resins: strength, Cs-134

			leaching resistance and morphological structure
160	<b>E. Seo</b>	Republic of Korea	Improvement of Regulatory Framework on Radioactive Waste Management Facilities in Korea
166	<b>J. Pullao</b>	Argentina	Plasma treatment of a simulated low-level radioactive waste
178	<b>N. Nassiri-Mofakham</b>	Iran	Experimental study on the characteristics of radon covers in waste landfills
123	<b>P.D.B.M Bekhuis L.H.A. Boudewijns</b>	Netherlands	Radioactive residue and waste streams in the Netherlands
124	<b>P.D.B.M Bekhuis L.H.A. Boudewijns</b>	Netherlands	(TE) NORM residue and waste streams in the Netherlands
189	<b>P.D.B.M Bekhuis L.H.A. Boudewijns</b>	Netherlands	Radioactive residue and waste materials in the Dutch medical sector
101	<b>D. Adamovich</b>	Russia	Transition from operation to decommissioning of NPP units in the Russian Federation on the example of units 1 and 2 Leningrad NPP
174	<b>K. Jeong</b>	Republic of Korea	A 3D digital-based training system of safety assessment to reduce exposure and prevent accidents during decommissioning of nuclear facilities
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9	<b>D. Gurau</b>	Romania	Safety assessment of radiological characterization in decommissioning of a nuclear facility or waste management processes
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[strategic master plan v1 may 2018.pdf \(iaea.org\)](#)

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