

# **International Conference on the Management of Spent Fuel from Nuclear Power Plants:**

**Meeting the Moment**

10 – 14 June 2024

## **PROGRAMME**

Organized by the  
International Atomic Energy Agency (IAEA)

In cooperation with

Nuclear Energy Agency of the Organisation for Economic Co-operation and  
Development  
European Commission  
World Nuclear Association  
World Nuclear Transport Institute

IAEA Headquarters Vienna, Austria

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**Location of the Event:**

International Atomic Energy Agency  
Vienna International Centre (VIC)  
Building C, Board Room C

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

**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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Read abstracts and full-papers of speakers



Participate in voting during sessions



Raise questions to speakers during session



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Track # and Abbreviation	Full Track Title
1. NAT	National Strategies for Spent Fuel Management
2. STO	Storage of SNF and Vitrified HLW and Subsequent Transportability
3. TRA	Transportation in the Back End of the Fuel Cycle
4. REC	Recycling of Spent Fuel
5. DIS	Disposal of SNF, HLW and Other Waste Forms in Deep Geological Repositories (DGR)
6. ADV	Impacts of Advanced Nuclear Energy Systems on the Back End of the Fuel Cycle
7. INT	Achieving Integrated Spent Fuel Management

## TIMETABLE

### Monday, 10 June 2024

Time	Session No.	Session Title / Break	Venue
09:00–10:30		Opening Session	Board Room C
10:30–11:00		<i>Coffee/Tea Break</i>	C04 Exhibition Area
11:00–13:15	P1 NAT	Panel on National Strategies for Spent Fuel Management (I)	Board Room C
13:15–14:45		<i>Lunch Break</i>	
14:45–16:00	P2 NAT	Panel on National Strategies for Spent Fuel Management (II)	Board Room C
16:00–16:30	PS1 NAT	<i>Poster Session 1 National Strategies for Spent Fuel Management Break</i>	C04 Exhibition Area & C0454
16:30–18:30	6.1 ADV	IMPACTS OF ADVANCED NUCLEAR ENERGY SYSTEMS ON THE BACK END OF THE FUEL CYCLE R&D for Advanced Reactors Relevant to the Back End Fuel Cycle	Board Room C
18:30–20:00		<i>Official Reception</i>	4th Floor – C-Building

### Tuesday, 11 June 2024

Time	Session No.	Session Title / Break	Venue
08:30–10:30	6.2 ADV	IMPACTS OF ADVANCED NUCLEAR ENERGY SYSTEMS ON THE BACK END OF THE FUEL CYCLE Analysis of Impact of Advanced Reactors on the Back End Fuel Cycle	Board Room C
10:30–11:00	PS6 ADV	<i>Poster Session 6 Impacts of Advanced Nuclear Energy Systems on the Back End of the Fuel Cycle Coffee/Tea Break</i>	C04 Exhibition Area & C0454
11:00–12:40	2.1 STO	STORAGE OF SNF AND VITRIFIED HLW AND SUBSEQUENT TRANSPORTABILITY Spent Fuel Characterization	Board Room C
12:40–14:00		<i>Lunch Break</i>	
12:50–13:50	SE 1	<i>Side Event 1: The French Fuel Cycle: An Integrated System for a Sustainable Low-Carbon Energy Sponsored by France</i>	Board Room C
14:00–15:40	2.3 STO	STORAGE OF SNF AND VITRIFIED HLW AND SUBSEQUENT TRANSPORTABILITY Country Overview	Board Room C
15:40–16:00	PS2.1 STO	<i>Poster Session 2.1 Storage of SNF and Vitrified HLW and Subsequent Transportability Break</i>	C04 Exhibition Area & C0454
16:00–17:20	4.1 REC	RECYCLING OF SPENT FUEL Near Term Opportunities	Board Room C
17:20–18:40	4.2 REC	RECYCLING OF SPENT FUEL Future Forward	Board Room C

### Wednesday, 12 June 2024

Time	Session No.	Session Title / Break	Venue
08:30–10:30	2.2 STO	STORAGE OF SNF AND VITRIFIED HLW AND SUBSEQUENT TRANSPORTABILITY Cladding Behaviour	Board Room C
10:30–11:00	PS4 REC	<i>Poster Session 4 Recycling of Spent Fuel Coffee/Tea Break</i>	C04 Exhibition Area & C0454

Time	Session No.	Session Title / Break	Venue
11:00–12:40	2.4 STO	STORAGE OF SNF AND VITRIFIED HLW AND SUBSEQUENT TRANSPORTABILITY New Design Application	Board Room C
12:40–14:00		<i>Lunch Break</i>	
14:00–16:00	P3	Panel on Navigating Stakeholders Engagement: Sharing Insights and Lessons Learned in Spent Fuel Management Strategy Implementation in Member States	Board Room C
16:00–16:30	PS2.2 STO	<i>Poster Session 2.2 Storage of SNF and Vitrified HLW and Subsequent Transportability Break</i>	C04 Exhibition Area & C0454
16:30–18:30	5.1 DIS	DISPOSAL OF SNF, HLW AND OTHER WASTE FORMS IN DEEP GEOLOGICAL REPOSITORIES (DGR) Disposal Strategies and Implementation	Board Room C

### Thursday, 13 June 2024

Time	Session No.	Session Title / Break	Venue
08:30–10:30	5.2 DIS	DISPOSAL OF SNF, HLW AND OTHER WASTE FORMS IN DEEP GEOLOGICAL REPOSITORIES (DGR) Technical/Scientific Aspects of Disposal	Board Room C
10:30–11:00	PS5 DIS	<i>Poster Session 5 Disposal of SNF, HLW and Other Waste Forms in Deep Geological Repositories (DGR) Coffee/Tea Break</i>	C04 Exhibition Area & C0454
11:00–13:00	P4	Panel on Innovation and Integration: Approaches for Managing Spent Fuel from Advanced Reactors (e.g. SMRs, ...)	Board Room C
13:00–14:20		<i>Lunch Break</i>	
13:10–14:10	SE 2	<i>Side Event 2: Meeting the Moment: Paving the Way for Tomorrow's SFM Workforce Co-organised by NEI, IYNC, IAEA-WiN, sponsored by NEI (United States of America)</i>	Board Room C
14:20–15:40	7.1 INT	ACHIEVING INTEGRATED SPENT FUEL MANAGEMENT National Approaches for Integrated Spent Fuel Management Strategies	Board Room C
15:40–16:10	PS7 INT	<i>Poster Session 7 Achieving Integrated Spent Fuel Management Break</i>	C04 Exhibition Area & C0454
16:10–17:50	7.2 INT	ACHIEVING INTEGRATED SPENT FUEL MANAGEMENT Benefits of Holistic Approach to Current and Future Fuel Cycles	Board Room C

### Friday, 14 June 2024

Time	Session No.	Session Title / Break	Venue
08:30–10:10	3.1 TRA	TRANSPORTATION IN THE BACK END OF THE FUEL CYCLE National Experiences	Board Room C
10:10–10:35		<i>Coffee/Tea Break</i>	C04 Exhibition Area
10:35–11:55	3.2 TRA	TRANSPORTATION IN THE BACK END OF THE FUEL CYCLE Current and Future Challenges	Board Room C
12:00–13:00		Closing Session	Board Room C

**MONDAY, 10 JUNE 2024**

09:00-10:30

**OPENING SESSION****Board Room C**

Name	Designating Member State/Organization	Title
<b>R.M. Grossi</b>	Director General IAEA (International Atomic Energy Agency)	Opening Address
<b>W.D. Magwood</b>	Director General OECD/NEA (Organisation for Economic Cooperation and Development - Nuclear Energy Agency)	Opening Address
<b>S. Bilbao y León</b>	Director General WNA (World Nuclear Association)	Opening Address
<b>U. Engelmann</b>	Director for Nuclear Safety and Security JRC-EC (Joint Research Centre- European Commission)	Opening Address
<b>P. Buchan</b>	Managing Director of Shipping NTS (Nuclear Transport Solutions) and Board Member WNTI (World Nuclear Transport Institute)	Opening Address
<b>J.A. Gago</b>	Conference Chairman, Spain	Opening Address
<b>A. González-Espartero</b>	Scientific Secretary, IAEA	Administrative Remarks
<i>10:30–11:00 Coffee/Tea Break</i>		

**MONDAY, 10 JUNE 2024**

**11:00–13:15**    **PANEL 1**  
**Panel on National Strategies for Spent Fuel Management (I)**

**Board Room C**

**Moderator:**    **S. Bilbao y León, WNA**

Time	Name	Designating Member State/Organization	Title
11:00–11:05	<b>S. Bilbao y León</b>	WNA	Remarks by the moderator
11:05–11:15	<b>T. Manneville</b>	French General Directorate for Energy and Climate, France	French Strategy for Spent Fuel Management
11:15–11:25	<b>T. Fukuda</b>	Nuclear Regulation Authority, Japan	Status of Spent Fuel Management in Japan
11:25–11:35	<b>T. Klomberg</b>	Ministry of Infrastructure and Water Management, Kingdom of the Netherlands	Spent Fuel and Radioactive Waste Management in the Kingdom of the Netherlands
11:45–11:55	<b>H.-J. Park</b>	Institute for Korea Spent Nuclear Fuel, Korea, Republic of	Status and Prospects of the SNF Management in Korea
11:55–12:05	<b>T. Juurmaa</b>	Nuclear Decommissioning Authority, United Kingdom	Nuclear Decommissioning Authority's Strategy Development (ID#81)
12:05–12:15	<b>J. Lubinski</b>	Nuclear Regulatory Commission, United States of America	The National Programme in the United States – The Regulatory Perspective
12:15–13:15	Q&A and Discussion		
13:15–14:45	<i>Lunch Break</i>		

**14:45–16:00**    **PANEL 2**  
**Panel on National Strategies for Spent Fuel Management (II)**

**Board Room C**

**Moderator:**    **H. Wanner, Switzerland**

Time	Name	Designating Member State/Organization	Title
14:45–14:50	<b>H. Wanner</b>	Switzerland	Remarks by the moderator
14:50–15:00	<b>B. Nős</b>	PURAM, Hungary	Management of Spent Nuclear Fuel in Hungary
15:00–15:10	<b>U. Dani</b>	Bhabha Atomic Research Centre, India	Management of Spent Nuclear Fuel in India – Experience, Challenges and Way Forward
15:10–15:20	<b>M. Shoaib</b>	Pakistan Atomic Energy Commission, Pakistan	National Strategy and Storage of Spent Fuel in Pakistan (ID#19)
11:35–11:45	<b>B. Sośnik</b>	Polskie Elekrownie Jądrowe, Poland	Spent Fuel Management in Poland
15:30–16:00	Q&A and Discussion		
16:00–16:30	<i>Poster Session 1 NAT Break</i>		

**16:30–18:30**    **SESSION 6.1 ADV: IMPACTS OF ADVANCED NUCLEAR ENERGY SYSTEMS ON THE BACK END OF THE FUEL CYCLE**  
**R&D for Advanced Reactors Relevant to the Back End Fuel Cycle**

**Board Room C**

**Chairpersons:**    **G. Xu, Canada**  
**N.A. Abdelraheim, Egypt**

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
16:30–16:50	26	<b>X. Wang</b>	Canada	Characterization of Spent Fuel for Selected Small Modular Reactors and Implications for the Back End Fuel Cycle
16:50–17:10	88	<b>P.-E. Dufour</b>	France	<i>YGE Challenge Winner</i> A Tool to Estimate Isotopic Evolution for Actinides Transmutation Dedicated to Fast Molten Salt Reactors: A Comparative Study of Evolving In-core Key Parameters for the Preliminary Design of a Fast Molten Salt Reactor (F-MSR)
17:10–17:30	51	<b>A. van Heek</b>	Belgium	Assessing the Potential for Molten-Salt Reactor (MSR) Technology in EU's Sustainable Nuclear Energy Futures
17:30–17:50	37	<b>M.-S. Chenaud</b>	France	The French R&D Collaborative Project ISAC on Fast MSR Dedicated to Actinides Transmutation
17:50–18:10	142	<b>T. Boyce</b>	United States of America	NRC Research Activities in Spent Fuel Storage and Management of Advanced Fuels for Advanced Reactors
18:10–18:30	21	<b>B.P. Zlobenko</b>	Ukraine	The Implementation of SMR and the Back End Issue of the Fuel Cycle in Ukraine
18:30–20:00	<i>Official Reception, 4th Floor – C-Building</i>			

**MONDAY, 10 JUNE 2024**

**Poster Presentations**

**16:00–16:30 POSTER SESSION 1 NAT: NATIONAL STRATEGIES FOR SPENT FUEL MANAGEMENT C04 Exhibition Area & C0454**

Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
31	<b>A. Casteletti</b>	Argentina	The Challenge of Implementing a Geological Final Disposal System in Argentina
83	<b>D.A El-Desokey</b>	Egypt	Egyptian Strategy for Spent Nuclear Fuel Management
46*	<b>A.M. Dima</b> , G.M. Litescu	Romania	Radioactive Waste and Spent Nuclear Fuel Management Taking into Account the Development and Expansion of Nuclear Programme in Romania
136	<b>D.W. Shao</b> , Y.Y. Sungita	United Republic of Tanzania	National Legislation for the Management of Spent Fuel in Tanzania as a Country Considering Embarking on Nuclear Power Programmes

(\*) e-Poster presentation available on touch screens



**TUESDAY, 11 JUNE 2024**

**08:30–10:30**    **SESSION 6.2 ADV: IMPACTS OF ADVANCED NUCLEAR ENERGY SYSTEMS ON THE BACK END OF THE FUEL CYCLE**    **Board Room C**  
*Analysis of Impact of Advanced Reactors on the Back End Fuel Cycle*

**Chairpersons:** **R. McCullum, United States of America**  
**P.-E. Dufour, France**

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
08:30–08:50	64	<b>C. Evans</b>	France	Challenges and Opportunities of Advanced Nuclear Reactors for the Back End of the Fuel Cycle
08:50–09:10	94	<b>L. McManniman</b>	United States of America	Starting with the End in Mind: EPRI's Perspective & Involvement in the WISARD Project
09:10–09:30	95	<b>J. Kinghorn-Mills</b>	United Kingdom	Potential Impacts of SMR Deployment on Multinational Cooperation at the Back End of the Fuel Cycle
09:30–09:50	119	<b>J.J. Whitlock</b>	IAEA	Safeguards by Design: Supporting Sustainable Spent Fuel Management Strategies
09:50–10:10	93	<b>L.E. Kissick</b>	United Kingdom	HTGR Spent Fuel Management Strategy in the UK
10:10–10:30	123	<b>D.T. Wojtaszek</b>	Canada	Assessment of Performance and Spent Fuel Characteristics of a Generic 100-MWe-Class SFR-SMR

*10:30–11:00*    *Poster Session 6 ADV*  
*Coffee/Tea Break*

**11:00–12:40**    **SESSION 2.1 STO: STORAGE OF SNF AND VITRIFIED HLW AND SUBSEQUENT TRANSPORTABILITY**    **Board Room C**  
*Spent Fuel Characterization*

**Chairpersons:** **M. Martín Ramos, EC**  
**B.T. Kejela, Ethiopia**

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
11:00–11:20	76	<b>A. Shama</b>	Switzerland	Characterization of the Swiss SNF Radionuclide Inventory for DGR Planning
11:20–11:40	59	<b>S. Häkkinen</b>	Finland	Computational Spent Fuel Characterization at VTT Finland
11:40–12:00	127	<b>E. Vlassopoulos</b>	Switzerland	EURAD - Spent Fuel Characterization - Report from a Recently Finished European Project
12:00–12:20	132	<b>H. Akkurt</b>	United States of America	Overview of Decay Heat Measurements at Clab Facility: Description of Decay Heat Measurements from 2003-2021 Under EPRI-SKB Collaboration
12:20–12:40	144	<b>S. Caruso</b>	Switzerland	New Calorimeter Concept for the Measurement of Decay Heat from Spent Fuel Assemblies: A Gösgen NPP Project

*12:40–14:00*    *Lunch Break*

**12:50–13:50**    **SIDE EVENT 1**    **Board Room C**  
**The French Fuel Cycle: An Integrated System for a Sustainable Low-Carbon Energy**  
**Sponsored by France**

**TUESDAY, 11 JUNE 2024****14:00–15:40 SESSION 2.3 STO: STORAGE OF SNF AND VITRIFIED HLW AND  
SUBSEQUENT TRANSPORTABILITY  
Country Overview****Board Room C****Chairpersons:** **T. Boyce, United States of America**  
**U. Zencker, Germany**

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
14:00–14:20	72	<b>J. Palmes</b>	Germany	Preparing for Extended Storage of SNF in Germany from the Point of View of the Licensing Authority
14:20–14:40	87	<b>A. Shepitchak</b>	Ukraine	Experience of Regulatory Oversight for the Construction, Commissioning and Operation of Spent Fuel Storage Facilities in Ukraine
14:40–15:00	108	<b>M. Asamoah</b>	Ghana	Regulatory Framework for Spent Fuel Management for Ghana's Nuclear Power Programme
15:00–15:20	65	<b>M.Z. Bell</b>	United States of America	<i>YGE Challenge Winner</i> Environmental Justice and Public Engagement in the US Consent-Based Siting Process
15:20–15:40	138	<b>J. Václav</b>	Slovakia	Spent Fuel Management in the Slovak Republic
15:40–16:00 <i>Poster Session 2.1 STO</i> <i>Break</i>				

**16:00–17:20 SESSION 4.1 REC: RECYCLING OF SPENT FUEL  
Near Term Opportunities****Board Room C****Chairpersons:** **D. Hambley, United Kingdom**  
**H. Vincenti, France**

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
16:00–16:20	106	<b>M. Nakahara</b>	Japan	Solvent Extraction Experiments for Uranium, Plutonium, and Neptunium Co-Recovery with Dissolver Solutions Derived from Irradiated Nuclear Fuels
16:20–16:40	43	<b>C.-B. Lee</b>	Korea, Republic of	Recycling of PWR Spent Fuel in a Fast Reactor
16:40–17:00	112	<b>G. Vaast</b>	France	MOX and UOX Fuel Recycling in Pressurized Water Reactors
17:00–17:20	7	<b>E.D. Filimonova</b>	Russian Federation	<i>YGE Challenge Winner</i> Fundamental Approaches to HTGR SNF Reprocessing Technology Development

**17:20–18:40 SESSION 4.2 REC: RECYCLING OF SPENT FUEL  
Future Forward****Board Room C****Chairpersons:** **D. Mehta, India**  
**E.D. Filimonova, Russian Federation**

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
17:20–17:40	9	<b>L.N. Podrezova</b>	Russian Federation	Technological Approaches to Spent Accident Tolerant Nuclear Fuel Processing
17:40–18:00	61	<b>H. Vincenti</b>	France	<i>YGE Challenge Winner</i> Outlines for Building the Future of French Recycling Facilities
18:00–18:20	131	<b>K. Lemmens</b>	Belgium	The ASOF Project - Advanced Separation for the Optimal Management of Spent Fuel
18:20–18:40	3	<b>T.A. Aleksandrova</b>	Russian Federation	Sustainable Fuel Cycle as Basis for Successful Development of Nuclear Power Programmes for Embarking Countries

TUESDAY, 11 JUNE 2024

Poster Presentations

10:30–11:00 POSTER SESSION 6 ADV: IMPACTS OF ADVANCED NUCLEAR ENERGY SYSTEMS ON THE BACK END OF THE FUEL CYCLE C04 Exhibition Area & C0454

Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
54	<b>N.A. Abdelraheim</b>	Egypt	<i>YGE Challenge Winner</i> Review on the Impact of Advanced Fuel Technology on the Radioactive Waste Inventory
10*	<b>M. Tefera Kebede</b>	Ethiopia	The Impacts of Advanced Nuclear Energy Systems on the Back End of the Fuel Cycle
39*	<b>V.V. Ignatev</b>	Russian Federation	MOSART Fuel Cycle Features

(\*) e-Poster presentation available on touch screens

15:40–16:00 POSTER SESSION 2.1 STO: STORAGE OF SNF AND VITRIFIED HLW AND SUBSEQUENT TRANSPORTABILITY C04 Exhibition Area & C0454

Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
2	<b>R.F.M. AbouAlo</b>	Egypt	Neutronic Behaviour of Light Water Reactor's Spent Fuel During Storage
125*	<b>G. Bracke</b> , C. Borkel, F. Sentuc, O. Bartos, F. Rowold, J. Krüger, K. Hummelsheim, M. Tzivaki, J. Nicol	Germany	Analysis of Safety Relevant Aspects Regarding Dry Interim Storage and Final Disposal of High Level Radioactive Waste: Evaluation of Hypothetical Measures and Their Implications
97	<b>T. Sundari</b> , M.N. Chabibi, D. Aji	Indonesia	Implementation of Waste Acceptance Criteria for the High Activity Nuclear Waste Transfer to the Interim Storage for Spent Fuel in Indonesia
86	<b>O. Horodnicha</b> , A. Shepitchak	Ukraine	Revision of Safety Requirements for Spent Fuel Storage Facilities of Ukraine
126	<b>A. Detkina</b> , D. Litskevich, B. Merk	United Kingdom	<i>YGE Challenge Winner</i> Advanced Burnup Credit Approach for the Storage of Boiling Water Reactor's Spent Fuel

(\*) e-Poster presentation available on touch screens

**WEDNESDAY, 12 JUNE 2024****08:30–10:30**    **SESSION 2.2 STO: STORAGE OF SNF AND VITRIFIED HLW AND  
SUBSEQUENT TRANSPORTABILITY**  
*Cladding Behaviour***Board Room C****Chairpersons:**   **E. Vlassopoulos, Switzerland**  
**M.Z. Bell, United States of America**

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
08:30–08:50	36	<b>R. Veazey</b>	United Kingdom	Progression and Challenges in Technically Underpinning the United Kingdom's Strategy for the Management of Spent AGR Oxide Fuel
08:50–09:10	156	<b>G. Cota-Sanchez</b>	Canada	Assessment of the Effects of Long-Term Wet Storage on Canadian Spent Nuclear Fuel
09:10–09:30	17	<b>D.-H. Kook</b>	Korea, Republic of	Observation on Slow Cooling Rate Effect of Unirradiated Zircaloy-4 Hydride Reorientation Under Dry Storage Condition
09:30–09:50	57	<b>C. Gallagher</b>	United Kingdom	Investigating Drying and Dry Storage Options for Stainless-Steel Clad Advanced Gas Reactor Spent Fuel
09:50–10:10	90	<b>U. Zencker</b>	Germany	Brittle Failure Limits of Spent Fuel Claddings Subjected to Long-Term Dry Interim Storage Conditions
10:10–10:30	134	<b>J. Faldowski</b>	United States of America	Re-Examining Spent Fuel Cladding Integrity Limits
10:30–11:00 <i>Poster Session 4 REC</i> <i>Coffee/Tea Break</i>				

**11:00–12:40**    **SESSION 2.4 STO: STORAGE OF SNF AND VITRIFIED HLW AND  
SUBSEQUENT TRANSPORTABILITY**  
*New Design Application***Board Room C****Chairpersons:**   **K. Shirai, Japan**  
**A. Detkina, United Kingdom**

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
11:00–11:20	6	<b>M.E. Budu</b>	Russian Federation	New Dual-Purpose Casks for Spent Fuel of Foreign WWER NPPs and High Level Waste from Spent Fuel Reprocessing
11:20–11:40	33	<b>A. Šmaižys</b>	Lithuania	Modifications of the Interim Spent Fuel Dry Storage Facility for the Storage of Fresh Fuel
11:40–12:00	109	<b>P. Narayanan</b>	United States of America	Performance Enhancement of the NUHOMS EOS Dry Storage System and the TN EAGLE Transportation Cask for Used Fuel Management
12:00–12:20	77	<b>F. Lentijo</b>	Spain	Complementary Facility for Cask Recovery at ISFSI
12:20–12:40	52	<b>R. Marín</b>	Spain	Spent Nuclear Fuel Management for Holtec International's SMR-300
12:40–14:00 <i>Lunch Break</i>				

**WEDNESDAY, 12 JUNE 2024**

**14:00–16:00**    **PANEL 3**    **Board Room C**  
***Panel on Navigating Stakeholders Engagement: Sharing Insights and Lessons Learned in Spent Fuel Management Strategy Implementation in Member States***

**Moderator:**    **I. Chatzis, IAEA**

Time	Name	Designating Member State/Organization	Title
14:00–14:05	<b>I. Chatzis</b>	IAEA	Remarks by the moderator
14:05–14:15	<b>J. Boelen</b>	COVRA, Kingdom of the Netherlands	To Maintain a Meaningful Conversation
14:15–14:25	<b>L. Frizzell</b>	Nuclear Waste Management Organization, Canada	
14:25–14:35	<b>R. Zirovnik</b>	Association Nationale des Comités et Commissions Locales d'Information, France	ANCCLI White Paper
14:35–14:45	<b>M. Pérez Fernández</b>	ENRESA, Spain	ENRESA: Creating Community
14:45–14:55	<b>T. Vietor</b>	NAGRA, Switzerland	Lessons from the White-Map Siting of the Swiss Deep Geological Repository
14:55–15:05	<b>M. Kojo</b>	LUT University, Finland	Residents' Opinions on the Options for Managing Nuclear Waste from SMRs: The Case of Four Largest Cities in Finland (ID#79)
15:05–16:00	Q&A and Discussion		
16:00–16:30	Poster Session 2.2 STO Break		

**16:30–18:30**    **SESSION 5.1 DIS: DISPOSAL OF SNF, HLW AND OTHER WASTE FORMS**    **Board Room C**  
**IN DEEP GEOLOGICAL REPOSITORIES (DGR)**  
***Disposal Strategies and Implementation***

**Chairpersons:**    **L. Kegel, Slovenia**  
**V. Solans, Sweden**

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
16:30–16:50	120	<b>M. Maertens</b>	France	CIGEO, Readiness of the French DGR Project at the Construction Licence Examination Stage
16:50–17:10	80	<b>J.J. Dunsford</b>	United Kingdom	Recent Progress within the United Kingdom R&D Programme for the Geological Disposal of High Heat Generating Wastes
17:10–17:30	124	<b>F. Johansson</b>	Sweden	Challenges in Collecting and Preserving Sufficient Spent Nuclear Fuel Information Before the Fuel is Placed in the Final Repository
17:30–17:50	111	<b>D. Mignone</b>	Switzerland	Cost Estimations for Disposal of Radioactive Waste in Switzerland: An Established Framework Takes the Next Step
17:50–18:10	71	<b>P. Keto</b>	Finland	Adaptation of Current Final Disposal Strategy and Methods in Finland for Spent Fuel from SMRs
18:10–18:30	63	<b>L. Kniznik</b>	Argentina	Spent Nuclear Fuel and the ConfinAR Geo Project

## Poster Presentations

10:30–11:00 POSTER SESSION 4 REC: RECYCLING OF SPENT FUEL

C04 Exhibition Area &amp; C0454

Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
104*	S.A. Darda, <b>H.A. Gabbar</b>	Canada	Atmospheric Pressure Plasma-Based Mass Separation for High Level Radioactive Waste Treatment
75*	<b>A.H. Elhefnawy</b>	Egypt	Review and Assessment of Recycling Spent Fuels in Pebble Bed High Temperature Gas Cooled Reactors
15	<b>H.-S. Park</b> , J.-H. Choi, K.-R. Lee, H.-Y. Kang, J.-Y. Pyo, J.-S. Ryu	Korea, Republic of	Development of Advanced Wasteforms for a Pyroprocessing to Recycle U/TRU in Korea
99	<b>T.Z. Malatim</b> , M.A. Ben Ghzail, A.S. Dakhil	Libyan Arab Jamahiriya	Simulation of AP1000 Fuel Shuffling Process Using Spent Fuel
5*	<b>A.V. Nosov</b> , I.V. Kuzmin, A.Yu. Leshchenko, V.P. Smirnov, R.N. Shamsutdinov, Yu.S. Mochalov, L.P. Sukhanov	Russian Federation	Development of Large-Scale Purified Inert Atmosphere Cells for Pyrochemical Treatment of Spent Nuclear Fuel
23	<b>D. Anufriev</b>	Russian Federation	Experience in Operation of Fuel Made from Reprocessed Materials and Outlook to the Uranium-Plutonium Fuel Use at the Russian NPPs
25*	<b>A. Koshcheeva</b> , A. Rodin, A. Ponizov	Russian Federation	Self-Ignition Conditions for Organic Ion Exchange Materials in the Reprocessing of Spent Nuclear Fuel
28*	<b>A. Nikulin</b> , E. Shiverskiy, A. Teryohin	Russian Federation	Safety Analysis of Fast Reactor's Nuclear Spent Fuel Reprocessing Facilities at Design Stage
70*	<b>E. Petit De Mange</b> , J. Dewitte	United States of America	The Favourable Economics for Recycling American Used Nuclear Fuel

(\*) e-Poster presentation available on touch screens

16:00–16:30 POSTER SESSION STO 2: STORAGE OF SNF AND VITRIFIED HLW AND SUBSEQUENT TRANSPORTABILITY

C04 Exhibition Area &amp; C0454

Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
8	<b>M.K. Shaat</b> , R.F. Mahmoud, A. Abdelhady	Egypt	Safety Considerations of the Dual Purpose Cask Containing High Burnup Fuel from an Advanced Power Reactor
12	<b>B.T. Kejela</b>	Ethiopia	<i>YGE Challenge Winner</i> The Challenges of Implementing Policies and Strategies for Handling Spent Fuel Management
62	<b>T. Sundari</b> , Nailatussaadah, A. Wahid, B. Arisanto	Indonesia	Thermal Safety Assessment of Indonesia's ISSF in Managing the Spent Fuels from GAS-MPR and the Decommissioning of the TRIGA 2000 Reactor
60	<b>C. González Lavid</b> , R. Plaza	Spain	Spent Fuel Acceptance System in Spain
105	C. Aguado, <b>F. Ferial</b> , L.E. Herranz	Spain	Methodology for the Assessment of Spent Fuel in Dry Storage and Subsequent Accident Scenarios

(\*) e-Poster presentation available on touch screens

**THURSDAY, 13 JUNE 2024**

**08:30–10:30**    **SESSION 5.2 DIS: DISPOSAL OF SNF, HLW AND OTHER WASTE FORMS**    **Board Room C**  
**IN DEEP GEOLOGICAL REPOSITORIES (DGR)**  
*Technical/Scientific Aspects of Disposal*

**Chairpersons:**    **B. Hedberg, Sweden**  
                           **D.P. Manrique Hernández, Mexico**

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
08:30–08:50	85	<b>M.J. Austin</b>	United Kingdom	An Overview of the United Kingdom Strategy for Management of Spent Nuclear Fuel, Focusing on Metallic Uranic Fuels and Challenges Presented for Geological Disposal
08:50–09:10	16	<b>K.-L. Lee</b>	Korea, Republic of	Design and Evaluation of a Korean-Style High-Efficiency Disposal System for Domestic Waste
09:10–09:30	40	<b>K.J. Robinson</b>	United Kingdom	Exploring Encapsulation Envelopes for Disposal of Spent Nuclear Fuel
09:30–09:50	38	<b>V. Solans</b>	Sweden	<i>YGE Challenge Winner</i> Predicting Decay Heat by Combining Fuel Parameters with Gamma and Neutron Data Using Machine Learning
09:50–10:10	78	<b>J. Sloane</b>	United States of America	Developing Waste Acceptance Criteria for Advanced Reactor Waste Forms in the Universal Canister System
10:10–10:30	11	<b>B. B. Acar</b>	Turkey	Effect of the Host Rock Thermal Properties on the Disposal Area Requirements for Spent Fuel and Vitrified High Level Waste in a Geological Repository

*10:30–11:00*    *Poster Session 5 DIS*  
                           *Coffee/Tea Break*

**11:00–13:00**    **PANEL 4**    **Board Room C**  
**Panel on Innovation and Integration: Approaches for Managing Spent Fuel from Advanced Reactors (e.g., SMRs, ...)**

**Moderator:**    **L. McManniman, United States of America**

Time	Name	Designating Member State/Organization	Title
11:00–11:05	<b>L. McManniman</b>	United States of America	Remarks by the moderator
11:05–11:15	<b>C. Evans</b>	WNA	Industry's View on Tangible Paths to Unlock the Full Potential of Nuclear Energy (ID#53)
11:15–11:25	<b>L. Iglesias Pérez</b>	JRC, EC	JRC-Euratom Foresight: Anticipating the Future Challenges of Spent Nuclear Fuel Management
11:25–11:35	<b>P. Gauthé</b>	HEXANA, France	
11:35–11:45	<b>E. Petit de Mange</b>	OKLO, United States of America	Deployment of a Modern Fuel Recycling Facility: The Favourable Economics for Recycling American Used Nuclear Fuel (ID#91)
11:45–11:55	<b>B. Merk</b>	University of Liverpool, United Kingdom	iMAGINE – A Breakthrough Nuclear Technology Operating on Spent Fuel Without Prior Reprocessing (ID#103)
11:55–12:05	<b>A. Situm</b>	University of Regina, Canada	The Development of Small Modular Reactor Spent Fuel and Radioactive Waste Strategies for Saskatchewan
12:05–13:00	Q&A and Discussion		

*13:00–14:20*    *Lunch Break*

**13:10–14:10**    **SIDE EVENT 2**    **Board Room C**  
**Meeting the Moment: Paving the Way for Tomorrow's SFM Workforce**

**Co-organized by NEI, IYNC and IAEA-WiN**  
**Sponsored by NEI (United States of America)**

**THURSDAY, 13 JUNE 2024**

**14:20–15:40**    **SESSION 7.1 INT: ACHIEVING INTEGRATED SPENT FUEL MANAGEMENT**    **Board Room C**  
**National Approaches for Integrated Spent Fuel Management Strategies**

**Chairpersons:**   **C. Evans, France**  
**L. Kniznik, Argentina**

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
14:20–14:40	34	<b>J. Simon</b>	Nigeria	<i>YGE Challenge Winner</i> Addressing Nuclear Spent Fuel Management Challenges: A Key to Alleviating Nigerian Skepticism Towards Nuclear Power Generation
14:40–15:00	73	<b>F. Ledroit</b>	France	An IRSN Augmented Expertise Tool Helping for Continuous Monitoring of the Consistency of the Fuel Cycle
15:00–15:20	151	<b>Y. Ishii</b>	Japan	Updated Status of Spent Fuel Removal at Fukushima Daiichi NPP
15:20–15:40	162	<b>K. Sawada</b>	Japan	Findings from the RPV and PCV Internal Investigation for Fuel Debris Retrieval at the Fukushima Daiichi NPP

*15:40–16:10*   *Poster Session 7 INT*  
*Break*

**16:10–17:50**    **SESSION 7.2 INT: ACHIEVING INTEGRATED SPENT FUEL MANAGEMENT**    **Board Room C**  
**Benefits of Holistic Approach to Current and Future Fuel Cycles**

**Chairpersons:**   **R. Tadesse, OECD/NEA**  
**J. Simon, Nigeria**

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
16:10–16:30	45	<b>L. Gringauz</b>	Argentina	About Spent Nuclear Fuel in Argentina: Should We Worry?
16:30–16:50	55	<b>L. Van den Durpel</b>	Belgium	The Value of an Integrated View on Spent Nuclear Fuel and Radioactive Waste Management Strategies Reducing Financial Risks to Stakeholders
16:50–17:10	74	<b>E. Vlassopoulos</b>	Switzerland	ROWO: A Holistic Approach to the Optimization of Deep Geological Disposal of High Level Waste
17:10–17:30	113	<b>C. Evans</b>	France	Advances in Developing a LWR Multirecycling System
17:30–17:50	116	<b>J.L. François</b>	Mexico	Study of Scenarios for Spent Fuel Management in Mexico



THURSDAY, 13 JUNE 2024

Poster Presentations

10:30–11:00 POSTER SESSION 5 DIS: DISPOSAL OF SNF, HLW AND OTHER WASTE C04 Exhibition Area & C0454  
FORMS IN DEEP GEOLOGICAL REPOSITORIES (DGR)

Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
84	<b>D. Hess</b> , L. Murray, L. Salonga	Deep Geo, Inc	Application of IAEA Insights for Multinational Deep Geological Repositories: 20 Years Later
82*	<b>L. Vaara</b>	Finland	Stochastic Uncertainty Propagation in Monte Carlo Depletion Calculations
130*	<b>D.P. Manrique Hernández</b> , F.G. García, P.F. Nelson	Mexico	<i>YGE Challenge Winner</i> Towards a Sustainable Future: "Deep Geological Repository for Nuclear Waste Disposal in Mexico"
22	<b>B.P. Zlobenko</b> , Yu.L. Zabulonov	Ukraine	Activities in Ukraine Towards Geological Disposal of Spent Fuels and High Level Waste

(\*) e-Poster presentation available on touch screens

15:40–16:10 POSTER SESSION 7 INT: ACHIEVING INTEGRATED SPENT FUEL C04 Exhibition Area & C0454  
MANAGEMENT

Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
49	L. Van den Durpel, <b>A. van Heek</b>	Belgium	NESSAT Toolbox Version 6: Comprehensive Nuclear Energy System Modelling and Strategic Decision-Making Support
129	<b>A. Mahamadou Saley</b> , H. Fenwick, G. Indauliya, L. Noudem	WiN YG	A Comparative Study of Spent Fuel Strategies in France and the UK
18	<b>M. Baryshnikov</b> , E. Zhurbenko	Russian Federation	Sustainable Nuclear Fuel Cycle as the Most Efficient and Responsible Way to Manage Spent Nuclear Fuel
44	<b>T. Bogdanova</b>	Russian Federation	Russian Nuclear Regulatory Authority's Involvement in the National Spent Nuclear Fuel Importation Strategy
89	<b>A.V. Gurin</b> , D.A. Volodin, E.V. Pidoprigora, E.A. Bobrov, P.A. Fomichenko, Y.A. Kotov, N.A. Kovalenko, P.S. Teplov	Russian Federation	Strategic Aspects of Regenerated Uranium and Plutonium Recycling in LWRs within the Concept of "Sustainable Nuclear Fuel Cycle" Proposal
135*	<b>K.N. Borozdin</b> , J. Kefalos, R. Penny, J.M. Durham, C.L. Morris, D. Poulson	United States of America	Monitoring Spent Nuclear Fuel Integrity with Muon Imaging

(\*) e-Poster presentation available on touch screens

**FRIDAY, 14 JUNE 2024**

**08:30–10:10**    **SESSION 3.1 TRA: TRANSPORTATION IN THE BACK END OF THE FUEL**    **Board Room C**  
**CYCLE**  
***National Experiences***

**Chairpersons:**    **S.J. Maheras, United States of America**  
                          **C. Alistan, France**

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
08:30–08:50	114	<b>Y. Solignac</b>	France	Preparing Safe and Efficient Loading and Transport Operations of Spent Nuclear Fuel
08:50–09:10	20	<b>V.N. Ershov</b>	Russian Federation	Experience and Perspectives of SNF Transportation in Russia: Organization of Shipments, Safety Requirements and Justification, Emergency Response, New Tasks
09:10–09:30	110	<b>F. Holzgrewe</b>	Switzerland	Spent Nuclear Fuel Management at KKM Nuclear Power Plant: Spent Nuclear Fuel Storage Away from the Plant
09:30–09:50	32	<b>L. Bak</b>	Poland	<i>YGE Challenge Winner</i> Transportation of Spent Nuclear Fuel Conducted in Poland - Lessons Learned

*09:50–10:15 Coffee/Tea Break*

**10:15–11:55**    **SESSION 3.2 TRA: TRANSPORTATION IN THE BACK END OF THE FUEL**    **Board Room C**  
**CYCLE**  
***Current and Future Challenges***

**Chairpersons:**    **Y. Solignac, France**  
                          **L. Bak, Poland**

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
10:15–10:35	42	<b>H.E. Adkins</b>	United States of America	Demonstration of a Risk-Informed Approach for Regulatory Approval for Shipping a Microreactor Transportation Package
10:35–10:55	41	<b>S.J. Maheras</b>	United States of America	Microreactor Transportation Emergency Planning Challenges
10:55–11:15	148	<b>C. Alistan</b>	France	Transportation and/or Interim Storage of SMR/AMR Spent Fuel: Solutions and Challenges
11:15–11:35	67	<b>L. Hay</b>	United States of America	Development of a Functions and Requirements Document for a SNF Transportation Package Performance Demonstration
11:35–11:55	141	<b>Y. Liu</b>	United States of America	Packaging Safety, Security, and Safeguards (3S) for Nuclear Fuel Cycle Materials in Storage, Transportation, and Disposal

**FRIDAY, 14 JUNE 2024**

**12:00-13:00 CLOSING SESSION**

**Board Room C**

Name	Designating Member State/Organization	Title
<b>J.A. Gago</b>	Conference Chairman, Spain	Closing Remarks
<b>L. Evrard</b>	Deputy Director General and Head of the Department of Nuclear Safety and Security, IAEA	Closing Remarks
<b>M. Chudakov</b>	Deputy Director General and Head of the Department of Nuclear Energy, IAEA	Closing Remarks

## IAEA PUBLICATIONS RELATED TO THE SUBJECT OF THE EVENT

Technical Report Series No. 240	Guidebook on Spent Fuel Storage Options and Systems   IAEA
IAEA -TECDOC 2040	Considerations for the Back End of the Fuel Cycle of Small Modular Reactors (2023)
Nuclear Energy Series No. NF-T-4.11	Technical Approaches for the Management of Separated Civilian Plutonium (2023)
IAEA Safety Standards Series No. SSG-7 (Rev. 1)	Safety of Uranium and Plutonium Mixed Oxide Fuel Fabrication Facilities (2023)
IAEA -TECDOC 1975	Spent Fuel Performance Assessment and Research (2021)
IAEA Proceedings Series STI/PUB/1905	Management of Spent Fuel from Nuclear Power Reactors: Learning from the Past Enabling the Future, Proceedings of an International Conference Held in Vienna, Austria, 24-28 June 2019 (2020)
IAEA Safety Standards Series No. SSG-15 (Rev.1)	Storage of Spent Nuclear Fuel (2020)
Nuclear Energy Series No. NF-T-3.3	Storing Spent Fuel until Transport to Reprocessing or Disposal (2019)
IAEA -TECDOC 1667	Status and Trends in Pyroprocessing of Spent Nuclear Fuels (2019)
IAEA-TECDOC-1862	Behaviour of Spent Power Reactor Fuel during Storage (2019)
IAEA Safety Standards Series No. SSR-6 (Rev.1)	Regulations for the Safe Transport of Radioactive Material (2018)
IAEA Safety Standards Series No. SSR-4	Safety of Nuclear Fuel Cycle Facilities (2017)
IAEA Safety Standards Series No. SSG-42	Safety of Nuclear Fuel Reprocessing Facilities (2017)
IAEA-TECDOC-1774	Potential Interface Issues in Spent Fuel Management (2015)
IAEA, Nuclear Security Series No. 14	Nuclear Security Recommendations on Radioactive Material and Associated Facilities (2011)
IAEA Nuclear Security Series No. 13	Nuclear Security Recommendations on Physical Protection of Nuclear Material and Nuclear Facilities (INFCIRC/225/Revision 5) (2011)
IAEA Nuclear Security Series No.15	Nuclear Security Recommendations on Nuclear and Other Radioactive Material out of Regulatory Control (2011)
IAEA Safety Standards Series No. GSR Part 5	Predisposal Management of Radioactive Waste (2009)

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### **Proceedings**

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## FORTHCOMING SCIENTIFIC CONFERENCES SCHEDULED BY THE IAEA

### 2024

International Conference on Nuclear Knowledge Management and Human Resources Development: Challenges and Opportunities (CN-324)  
**2 – 5 July 2024, tba**

International Conference on Hybrid Imaging (IPET 2024) (CN-326)  
**7 – 11 October 2024, Vienna, Austria**

International Conference on Small Modular Reactors and their Applications (CN-327)  
**21 – 25 October 2024, Vienna, Austria**

International Conference on Research Reactors: Achievements, Experience and the Way to a Sustainable Future (CN-319)  
**11 – 15 November 2024, Vienna, Austria**

Ministerial Conference on Nuclear Science and Technology for Development (CN-328)  
**26 – 28 November 2024, Vienna, Austria**

International Conference on Challenges Faced by Technical and Scientific Support Organizations (TSO) in Enhancing Nuclear Safety and Security: Enhancing science and adaptability in a changing world and creating perspective for a young generation (CN-329)  
**2 – 6 December 2024, Vienna, Austria**

### 2025

Third International Conference on Applications of Radiation Science and Technology (ICARST-2025) (CN-332)  
**7 – 11 April 2025, Vienna, Austria**

IAEA International Conference on Advances in Stakeholder Engagement for Nuclear Power Programmes (CN-333)  
**26 – 30 May 2025, Vienna, Austria**

International Conference on Advances in Radiation Oncology (ICARO 4) (CN-331)  
**2 – 5 June 2025, Vienna, Austria**

30th IAEA Fusion Energy Conference (CN-336)  
**13 – 18 October 2025, Xi'an, China**

International Conference on Resilience of Nuclear Installations against External Events from Safety Perspective (CN-337)  
**20 – 24 October 2025, Vienna, Austria**

International Conference on National, Regional and International Nuclear and Radiological Emergency Preparedness and Response: Facing New and Complex Challenges (CN-338)  
**10 – 14 November 2025, Vienna, Austria**

International Conference on Radiation Protection in Medicine: X Ray Vision (CN-339)  
**8 – 12 December 2025, Vienna Austria**

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