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Current Status and Issues on Radioactive Waste Disposal in Republic of Korea

I. Milestones of Radioactive Waste Management I. Status and Issues on LILW Disposal II. Status and Issues on HLW Disposal

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I. Milestone of Radioactive Waste Management



II. Status and Issues on LILW Disposal



ptance at Disposal Site	•	30
osed at 1 st Facility	•	25
cilities, KORAD (Gyeongju)		

sposal Facility	2 nd Stage LILW Disposal Facility	3rd Sta
umber of WP) e-level WPs	 Under Construction (July '22~Dec. '24) Planned Operation (Jan. '25) Capacity : 125,000 (Number of WP, 200l) Less than Low-level WPs 	 On Design Planned O Capacity : Less than \

	150 000		
	130,000	1	.15,63
4.387 (100.0%)	100,000		
Package, 200l)	50,000		
	0		
			KHNP



II. Status and Issues on LILW Disposal



III. Status and Issues on HLW Disposal

The 2nd national master plan for HLW management(Dec. 2021)

Project Preparation



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Identification of all elemental technologies necessary for the entire management process to support the 2nd basic plan for HLW management

Development of how to secure the technology from a mid- to long-term perspective that can ensure consistency and continuity

Promoting the timely acquisition of necessary technologies for each stage of management

Enhancement the reliability of policies and public acceptance and suggestions the ways to secure the technology for safe management of HLW

Geological Disposal Facility





III. Status and Issues on HLW Disposal



4 technology fields

104 elemental technologies

343 detailed technologies

2022 R&D Roadmap for the 2nd national master plan(Dec.2021) of HLW management



The roadmap sets detailed definitions, goals, and contents for each elemental technologies.

III. Status and Issues on HLW Disposal



developed roadmap



According to 2nd basic plan, How the technical interfaces between storage and disposal of HLW are considered?



Detailed siting location of HLW management facility including the centralized interim storage and the final disposal?

In the roadmap, how the safeguard issues including both safeguards by design and security by design are considered? How does it considered the possible HLW that can be generated from processing and reprocessing of SNF? Bow it is considered for public acceptance issues before initiating the site investigation?

Opinion Hearings for the domestic experts (July 2022)

Background, Domestic & Overseas status of R&D, Introduction of Panel Discussions with online and offline questions

Major questions at opinion hearings (July 2022)







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Thank you for your attention

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