

# Intergenerational Aspects/Challenges in Programme Development and Safety Communications



22 November 2024

Haeryong Jung



**I. Korean Programme and HLW Management Principles**

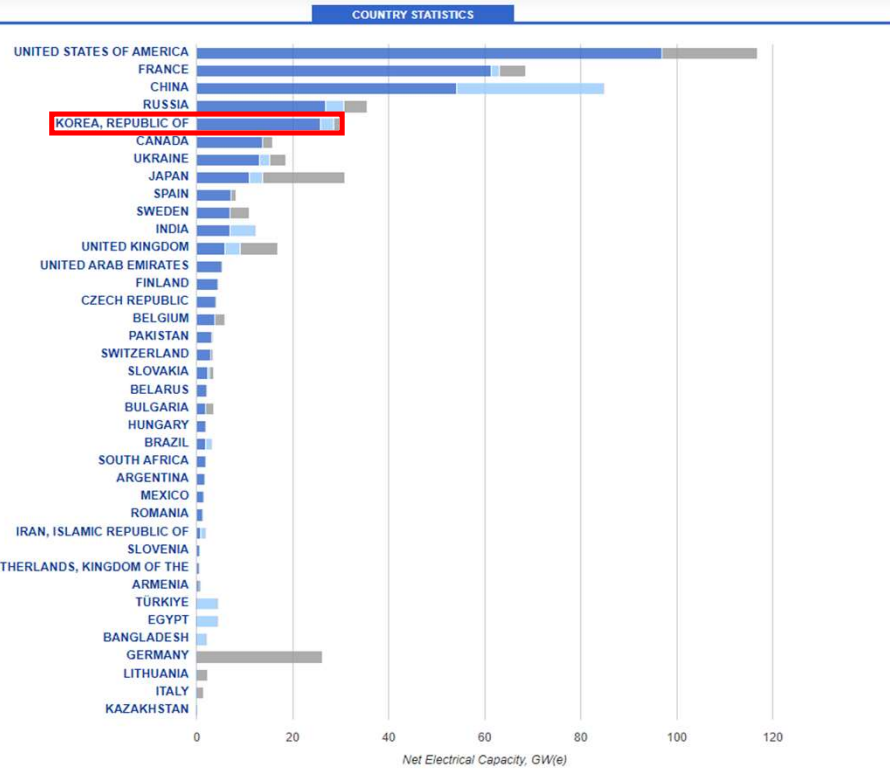
**II. Intergeneration Issues and Challenges**

**III. Communications with Young Generations**

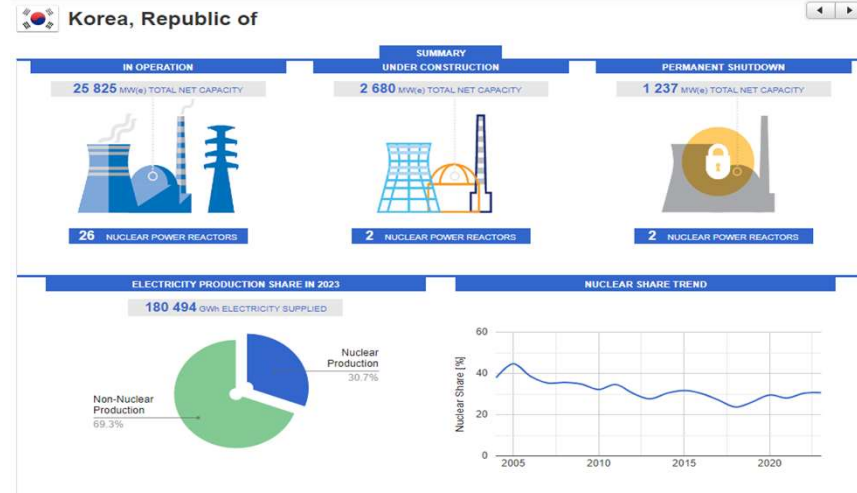
**IV. Training and Professional Development**

# Nuclear Power and Radioactive Waste Disposal Programmes

KORAD



Source: PRIS, IAEA  
November 2024



Source: PRIS, IAEA  
November 2024

## Wolsong LILW Disposal Center



- 1 Government responsibility

---

- 2 Safety first to protect people and environments against harmful effects of radioactive waste

---

- 3 Confidence building through transparency and public involvement

---

- 4 **No burdens to future generations** and polluters-pay principle

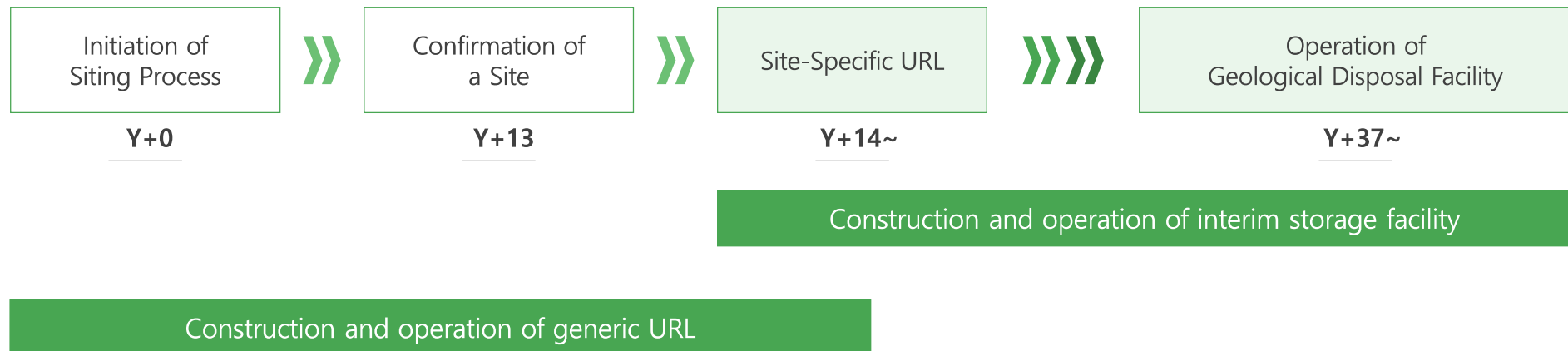
---

- 5 Continuous technology development required for safe management of radioactive waste

---

- 6 Reversibility and retrievability during the operation of a deep geological repository considering technology development and social circumstances

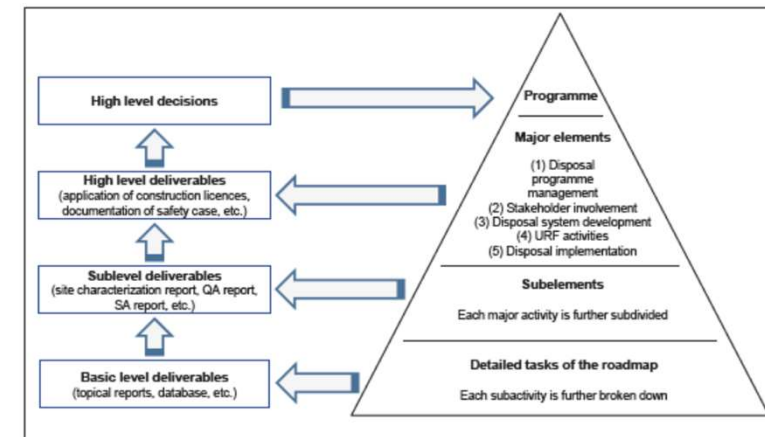
## ☑ HLW management: a multi-generation issue



- A deep geological disposal programme likely takes place over several decades. In big nuclear programmes it is expected to take place over one hundred years from initiation through siting, construction and operation to closure.
- Young and future generations are important players.

## ☑ Concerns on Safety

- The general consensus is that a deep geological disposal is an acceptable solution to isolate HLW and/or SNF from human being and the environment;
- The safety of a deep geological repository is discussed and bolstered in the framework of Safety Case;
- The Safety Case is also used as a useful tool for communication with interested parties in terms of safety features and how safety is achieved; and
- There is a gap on safety concept between expert groups and the public.



Source: IAEA, NW-T-1.43, 2024

## ☑ School-aged Children and Youth

- Various communication channels suitable for children and youth
  - Brochure, animation, fair tales, participation to school programmes such as science activities, SNS, etc



# Communications with Young Generations

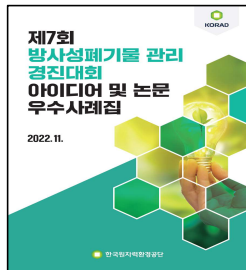


## ☑ University Students



## International Symposium, SaRaM

Research paper competition on Radioactive waste management



## Outreach Activities

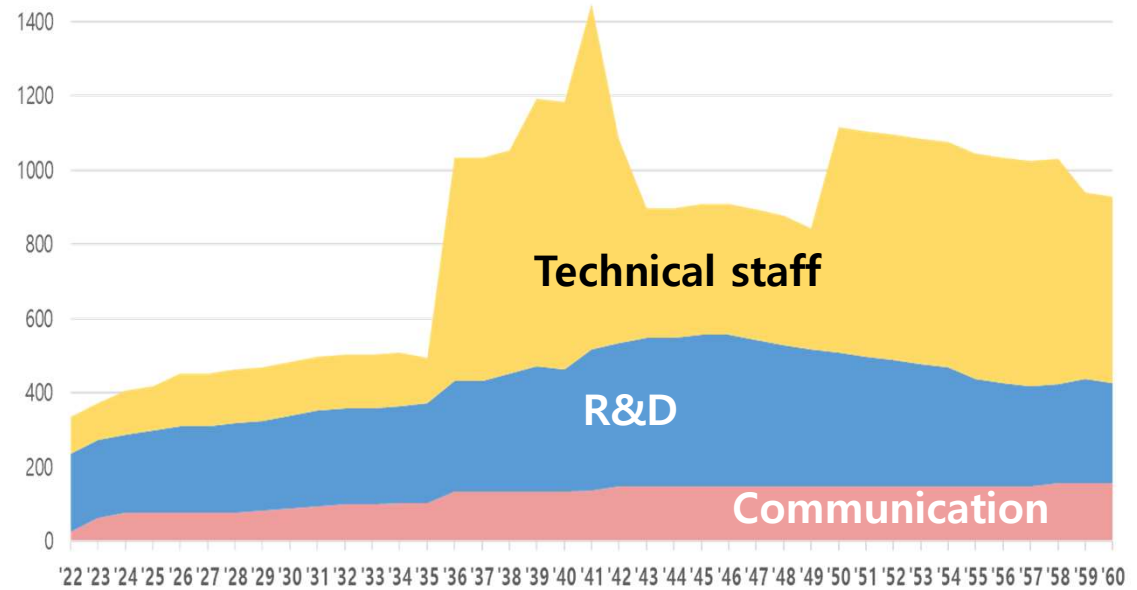


## ICGR-7



☑ National Plan for HR Development (MOTIE, December 2022)

**고준위방패물 관리 전문인력 양성계획**  
  
 2022. 12.  
  
 산업통상자원부  
 원 전 환 경 과



## ☑ Undergraduate Support Programme

- 6 universities have been selected and supported in social science, geology and nuclear engineering
- Project-based learning: it aims to provide an opportunity with students to build creative capacity in the field of radioactive waste management
- KORAD and KHNP staff participate in the programme as mentors



## ☑ Graduate Support Programme

- Multi-graduate school program in the field of science, engineering and social science
- 2 consortiums have been selected, and they will be supported for 4 years

## ☑ Young Staff in Nuclear Industry

- An advanced training programme is provided to young staff in nuclear industry in the field of nuclear law, communication, transportation, storage and disposal

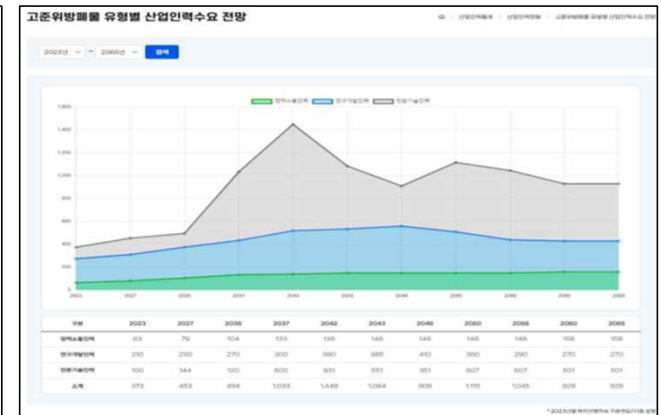
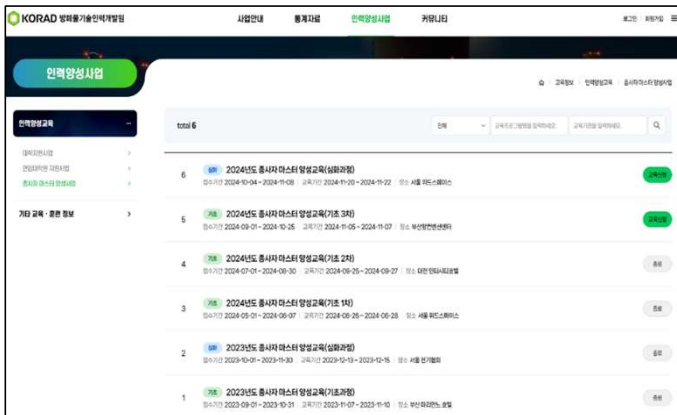
## ☑ Internship Programme

- KORAD provides an internship programme with graduates and undergraduates who would like to experience radioactive waste management



## ☑ HR Management System

- A HR management system has been developed for the effective and efficient management of the HR development programme, and
- For graduate and undergraduate support programmes, career management is also included in the system



---

**Thank you for your attention**

