



WM'2009

Waste Management Challenges and the Nuclear Renaissance

The French Perspective

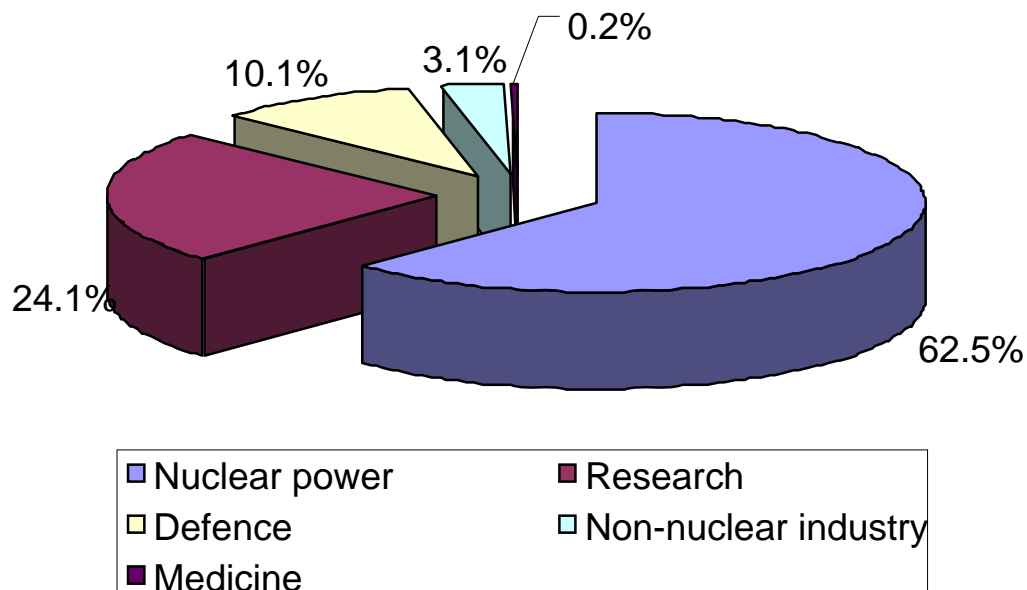
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AGENCE NATIONALE POUR LA GESTION DES DÉCHETS RADIOACTIFS

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Waste generation in France



	FORECAST VOLUMES 2020 DISPOSED OF OR IN STORAGE
HLW	3,611
ILW-LL	54,884
LLW-LL	104,997
LILW-SL	1,193,001
VLLW	581,144
TOTAL	1,937,637



A simple Classification scheme for radioactive waste

Short lived waste

Long lived waste

Very low level	Centre de Morvilliers (waste from dismantling operations)	
Low level	Centre Aube (operating waste from NPPs) + Centre MANCHE	Operational 2019 Call for siting in progress (graphite, radium bearing)
Intermediate level		
High level	Waste from reprocessing plants Research stage – 1991 and 2006 acts Disposal site to be commissioned in 2025 Investigations from the URL - Meuse/Haute-Marne site	



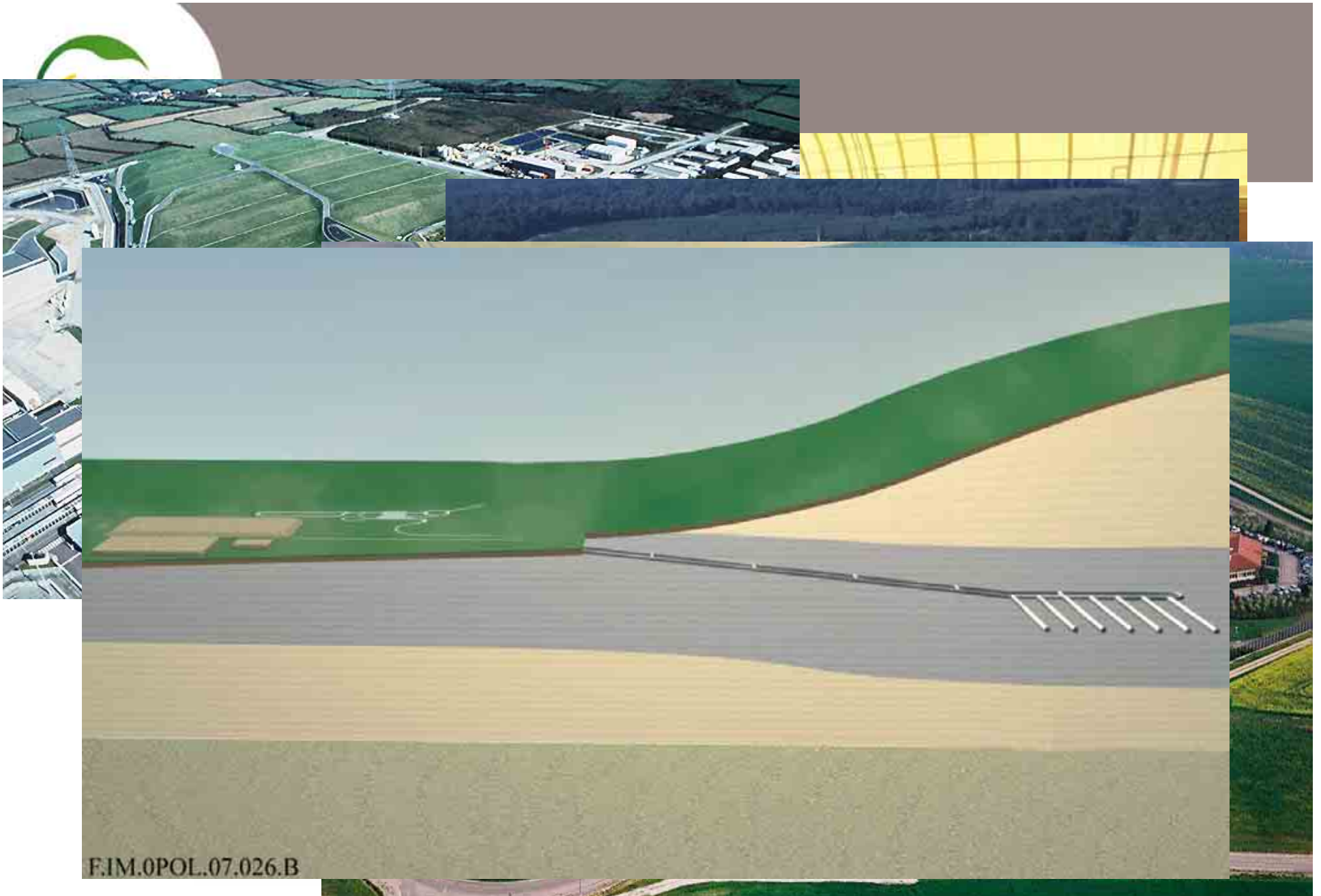
A National vision of radioactive waste management

National Inventory

- » Radioactive waste exist, their characteristics and quantities are known and clearly located
- » Based on volunteer declaration, supervised by the Nuclear Safety Authority
- » Prepared by ANDRA and made public every 3 years
- » Prospective for 2020, 2030 and for all committed waste

National Management Plan for Radioactive Materials and waste

- » Existing modes for managing radioactive material and waste
- » Forecast for storage and disposal capacities
- » Research and development programmes implemented for radioactive waste with no existing management modes



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Conclusion

Very low level waste: a technical solution exists and is operated

- ☐ Centre de Stockage de Morvilliers

Short lived waste: a technical solution exists and is operated

- ☐ Centre de Stockage de la Manche
- ☐ Centre de Stockage de l'Aube

Long lived waste: research and studies are advanced

- ☐ Radium bearing and graphite waste disposal, objective 2019
- ☐ IL and HLLL waste disposal, objective 2025

However, a disposal facility for radioactive waste is a rare resource

- ☐ Waste minimization
- ☐ Recycling

Follow-up of inventories and solutions for waste management :
performed in the framework of the PNGMDR (Plan National de Gestion des Matières et des Déchets Radioactifs)