



Radioactive waste and spent fuel management in Europe: current status and prospects

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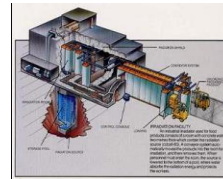
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International Workshop on Radioactive Waste
Management
15 December 2016, Budapest

All EU Member States generate radioactive waste and have to manage it safely in the long term

- 16 MS with NPPs
- 14 MS with operational NPPs
- 20 MS with research reactors
- 1 case of shared NPP

Industry



Research



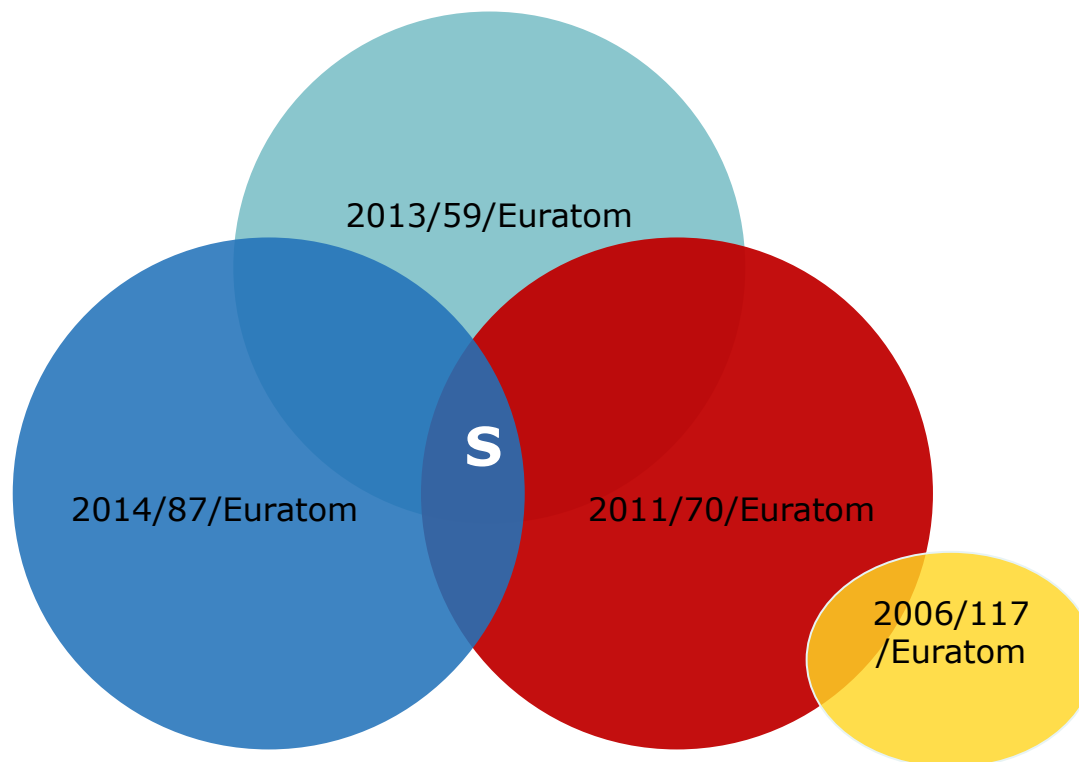
Medicine



Decommissioning



Nuclear
Industry



Directive 2013/59/Euratom on Basic Safety Standards
Directive 2014/87/Euratom on Nuclear Safety
Directive 2011/70/Euratom on Safe and Responsible SF and RAW management
Directive 2006/117/Euratom on Supervision and control of SF and RAW shipments

Directive 2011/70/EURATOM

First attempt in 2003 – Nuclear Waste Package

Adopted by the Council in August 2011

Scope

- **responsible and safe long term spent fuel and radioactive waste management**
- **applies to all MS**

Objectives

- **spent fuel and radioactive waste management, from generation to disposal**
- **from civilian activities**



Directive 2011/70/EURATOM

Complements the EU legal base in the nuclear domain and **contributes to the safe and responsible management of radioactive waste and spent fuel** by establishing a common legal framework with a set of requirements, guidance and timeframes for all MSs to follow.

Directive 2011/70/EURATOM – status quo

- **Implementation** underway in all MS
- **National Reports** received from all MS
- **National Programmes** from 22 MS
- **3 MS concrete plans for geological disposal**
(FI - 2022, FR - 2025 and SE - 2030)
- **First international peer review** in 2017 (PL and FR)
- **1st EC report** to Parliament and Council beginning of 2017
- **EC opinions** on National Programmes in 2017

Directive 2011/70/EURATOM –key challenges

Some Member States still have to either develop policy or make final decisions for disposal - Long timeframes

Member States consider also the option for **shared solutions** as a disposal option - none proposed to host such a facility

Adequate **cost assessment, financing mechanisms** and fund management for spent fuel and radioactive waste management remains a challenge

Comprehensive up-to-date inventory - main challenge is inconsistent and sometimes incomplete reporting

Directive 2011/70/EURATOM

Lessons learnt event from the EC review of MS implementation

7-9 June 2017, Brussels

- EC presentation of its 1st Report
- Further discussion with MS on how to address common challenges and issues
- Identify areas where the EC can support MS



European
Commission

Thank you