



Long-term operation of NPPs: what to do at EU level?

NTW Workshop

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State of play

- **EU:**
 - **130 operating reactors, 125 GWe installed capacity**
 - **28% electricity consumed, 60% low carbon**
 - **Average reactor age: around 30**
- **Europe (excluding Russia):**
 - **Reactor age:**
 - > 30: **67/151 (44%)**
 - > 35: **25/151 (17%)**
 - > 40: **7/151 (5%)**
 - **Average reactor age: 29 (design lifespan: 30-40)**



Contingencies

- **Lifetime extensions and new build are contingent on:**
 - **nuclear safety and security**
 - **public acceptance**
 - **Member States' positions on nuclear**
 - **economics: financing, competitiveness**
 - **attitude towards climate targets (2030)**
 - **research and innovation**

Competences

- **Member States:**
 - **Energy mix**
 - **New build & Lifetime extensions**
- **EU:**
 - Provide a **level playing field** by putting in place and enforcing a **common legal framework** (safety, waste, radiological protection, safeguards)
 - Stimulate an **open debate** and **cooperation with stakeholders**
 - Support **third countries** (cooperation with **IAEA**)



Commission action

- **Commission focus:**
 - ✓ **Safety of nuclear installations**
 - ✓ **Spent fuel and waste management**
 - ✓ **Emergency preparedness and response**
 - ✓ **Civil liability and insurance**
- **Nuclear Safety Directive (2009) and amendment proposed (2013):**
 - **Common safety objectives (flexibility)**
 - **Monitoring implementation (European peer reviews)**
 - **Safety governance (independence of regulators)**
 - **Transparency and public involvement**

NSD and LTO

- **NSD and the proposed amendment have introduced a powerful tool:**
 - **Uniform EU safety objectives subject to European peer reviews**
 - **Change in licensing is subject to compulsory national periodic safety review**
 - **However: decisions on lifetime management (and new build) remain a national responsibility**



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THANK YOU
for your attention