


IAEA Action Plan and the European Union

as seen from Hungary

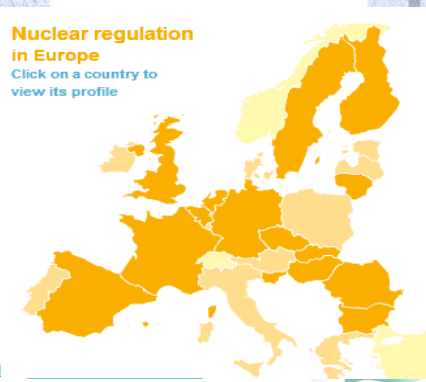
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RIC 2012 1

Nuclear regulation in Europe

Click on a country to view its profile




RIC 2012 2

Role of nuclear energy in the EU

- 14 member states, 136 power reactors, 34% share
- Nuclear energy is accepted, but national competence

EU integration steps:

- EURATOM
- WENRA (harmonization based on IAEA standards)
- ENSREG (harmonization on policy level)
- Nuclear safety directive
- Waste and spent fuel directive
- Fukushima „Stress Test“



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Post-Fukushima Stress Test in the European Union

Initiative: European Council (March 25, 2011) → European Commission → ENSREG* (May 13, 2011) → European National NS Authorities → Licensees

Goal: To determine whether the European NPPs are vulnerable to effects analogous to the Fukushima case. The weak points and the corresponding corrective actions shall be identified.

Targeted Safety Re-assessment ≡ „Stress Test”

* ENSREG – European Nuclear Safety Regulatory Group



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EU methodology


- Each EU NPP + Ukraine and Switzerland
- 2 parallel but separate review (safety and security of NPPs)
- 2 stages: preliminary results and final national reports
- 3 phases
 - Operator's self assessment
 - Regulatory re-evaluation of results and preparation of national reports
 - Independent international peer review by EU experts
- Transparency



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ENSREG topics


- ENSREG
 - content and methodology for safety review
 - 3 main topics
- 1. External hazards: earthquake, flooding and other external natural hazard factors (weather)
 - Soundness of design basis
 - Margins for beyond design basis cases



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ENSREG topics

- 2. Loss of electric power supply and loss of ultimate heat sink or combination of these
 - Appropriately large margins
 - Timeframes and tools available to recovery
- 3. Severe accident management and emergency preparedness
 - Available organizational preparedness and tool sets
 - Possible solutions for extreme natural disaster or multiunit damage

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EU Peer Review

- Topical review
 - 3 main topics - 3-3 experts review every topic of each country report
 - Questions - Hungary received ~ 110
- Country review
 - Country presentations
 - Answers to questions
 - Visit to the country

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EU Peer Review

- Final report to the European Council: June 2012 (general report+country reports)
- Review of EU legislation coordinated with the IAEA Action Plan
- Implementation of Stress Test results
- Off-site emergency preparedness

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